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WHC-MR-0403-3

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Tri-Party Agreement Milestone Summary January 1993

Date Published
February 1993



Prepared for the U.S. Department of Energy



**Westinghouse
Hanford Company**

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Hanford Operations and Engineering Contractor for the
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Approved for Public Release

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PREFACE

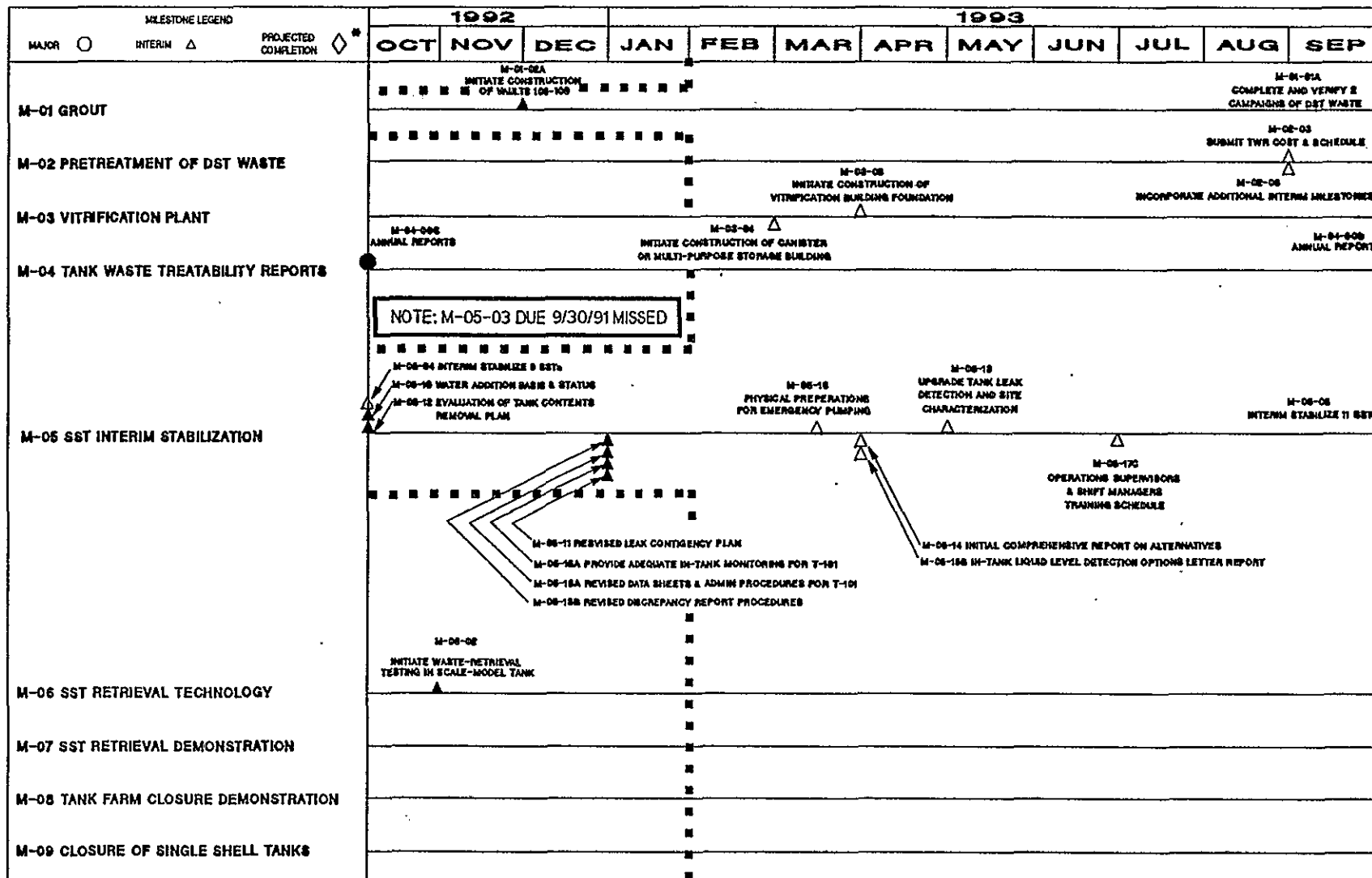
The *Tri-Party Agreement Milestone Summary Report* is issued monthly by the U.S. Department of Energy, Richland Field Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of 242 planned interim milestones, 238 were completed by January 30, 1993.

The following Tri-Party Agreement major milestones have been completed; therefore, they are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement Milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

TPA MILESTONES

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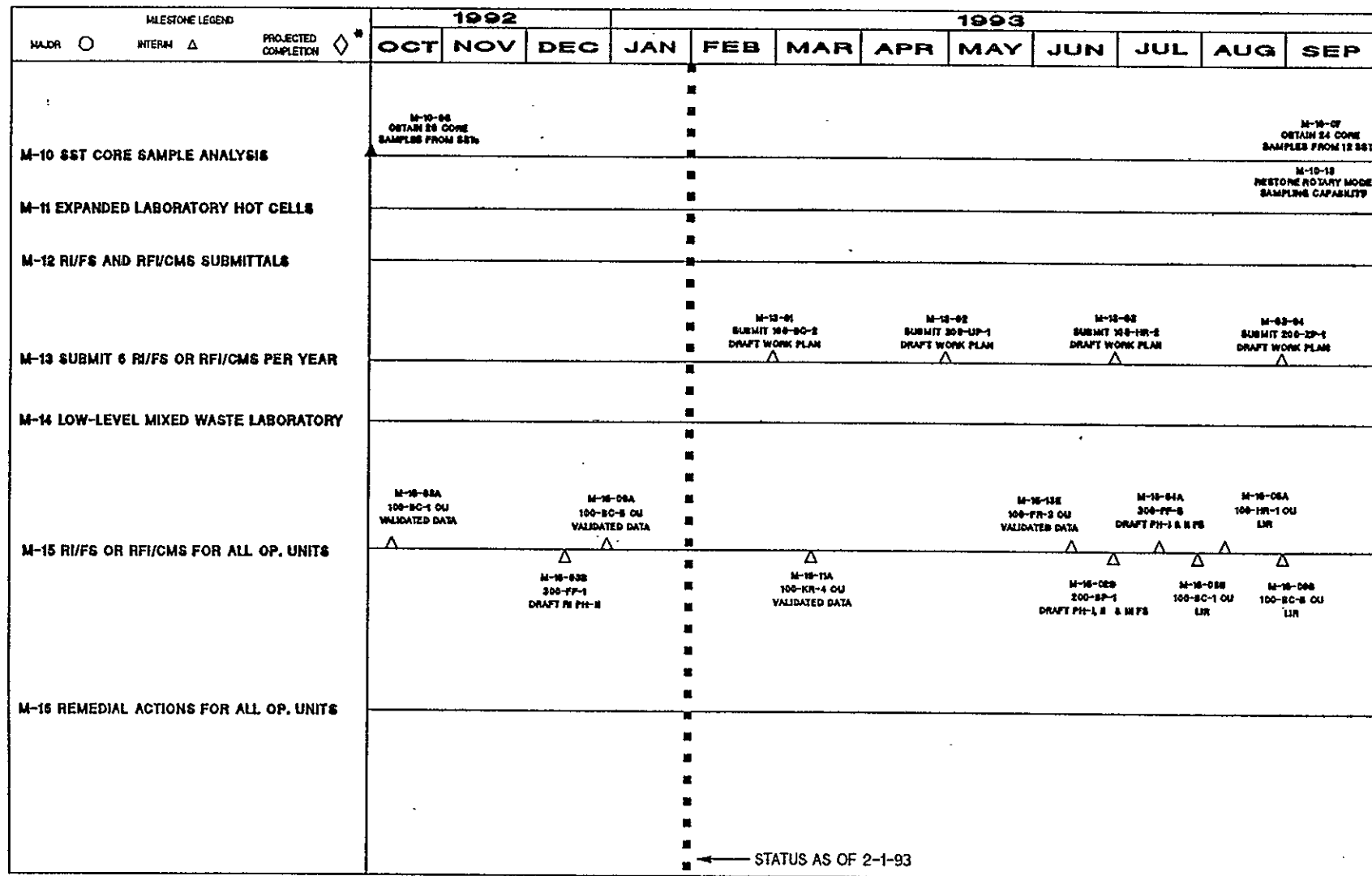
← STATUS AS OF 2-1-93

* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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TPA MILESTONES

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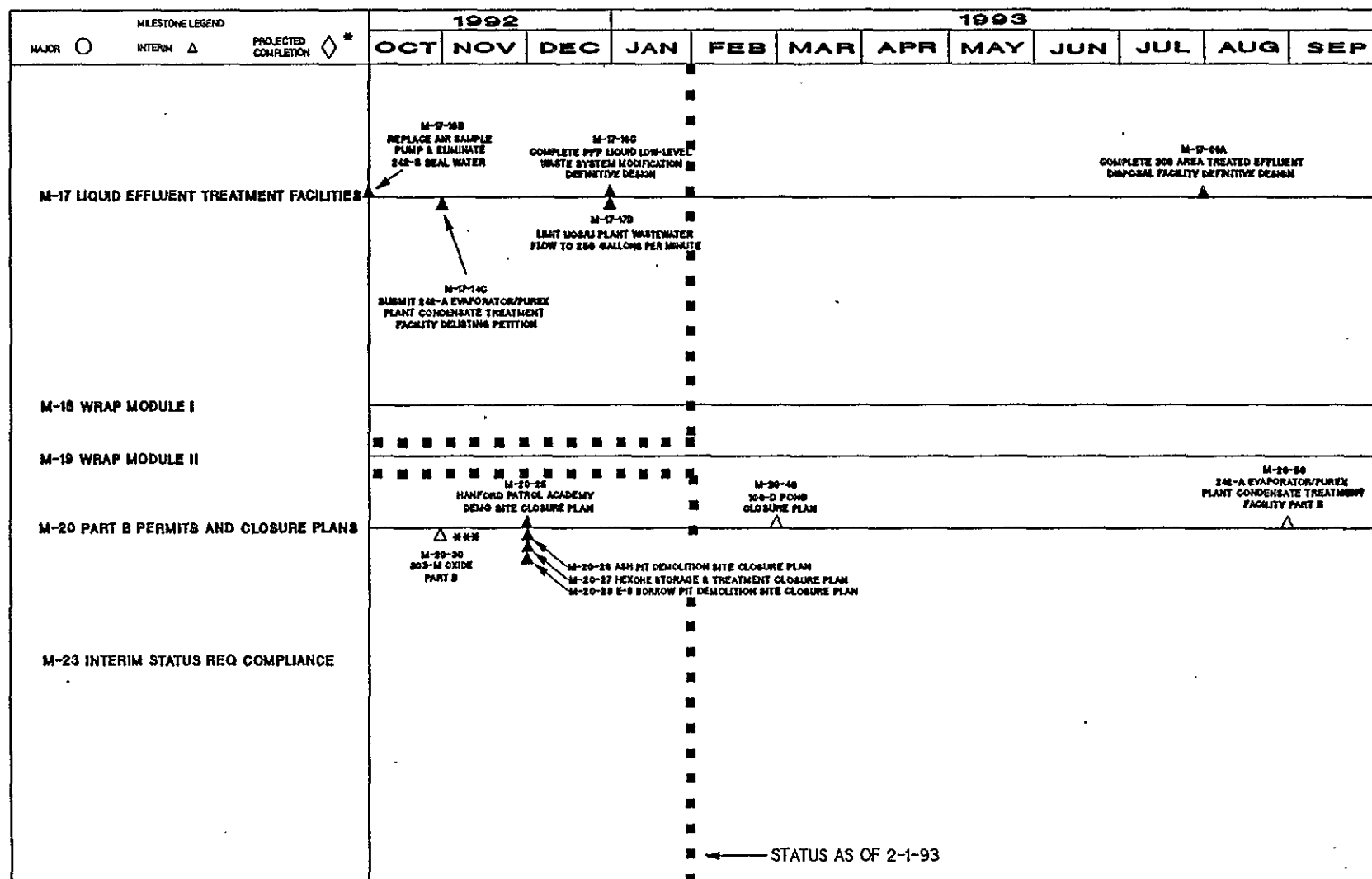
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* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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TPA MILESTONES

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* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

** WRAP 2B (TRU WASTE) DELAYED - WRAP 2A (LLW/RMW) PROJECTED TO BE COMPLETED AS SCHEDULED ON 9-30-99

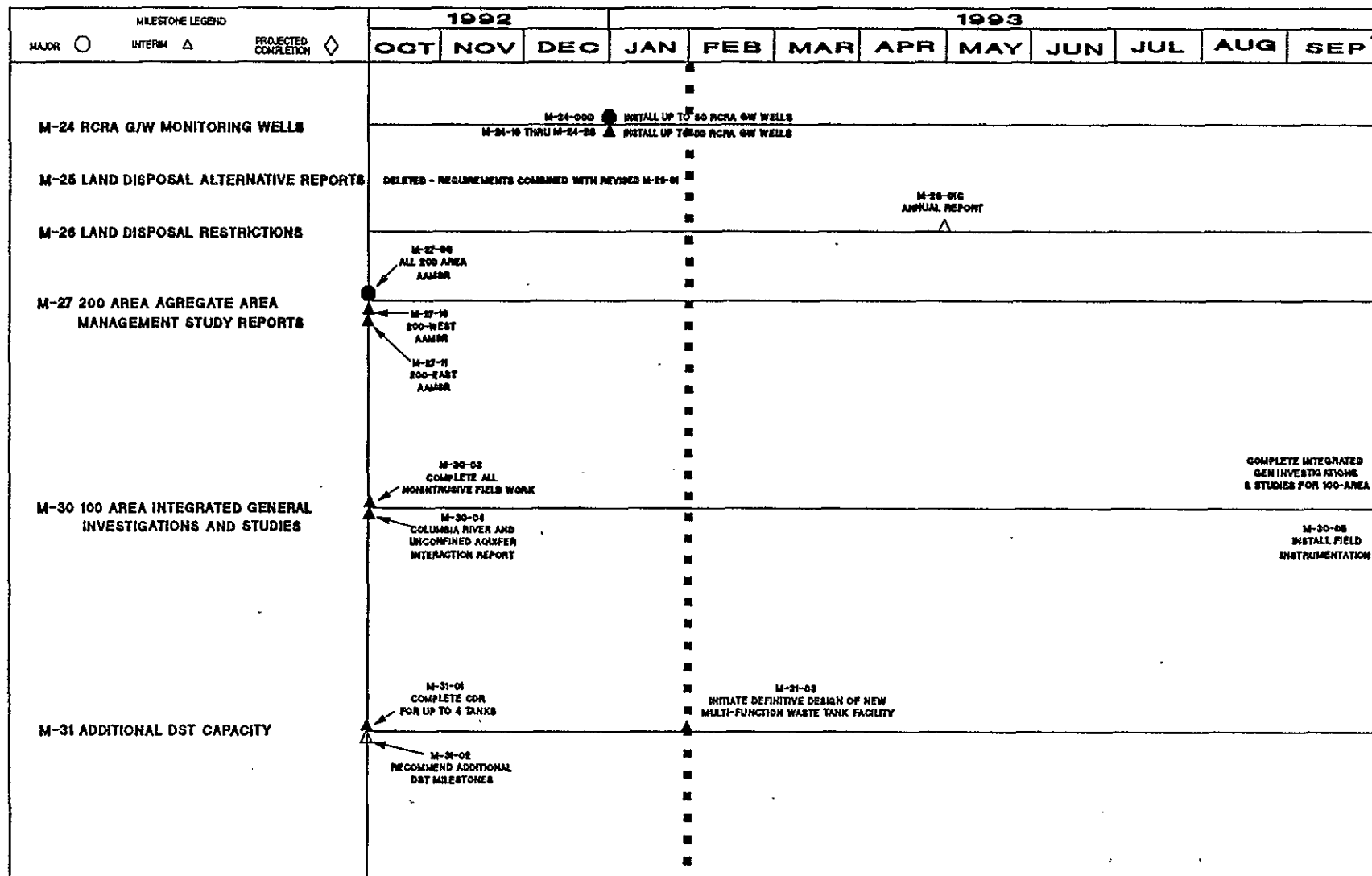
*** REQUEST TO WITHDRAW PART A DENIED; DISPUTE RESOLUTION STARTED.

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TPA MILESTONES

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← STATUS AS OF 2-1-93

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TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY JANUARY 1993

(\$ in Millions)

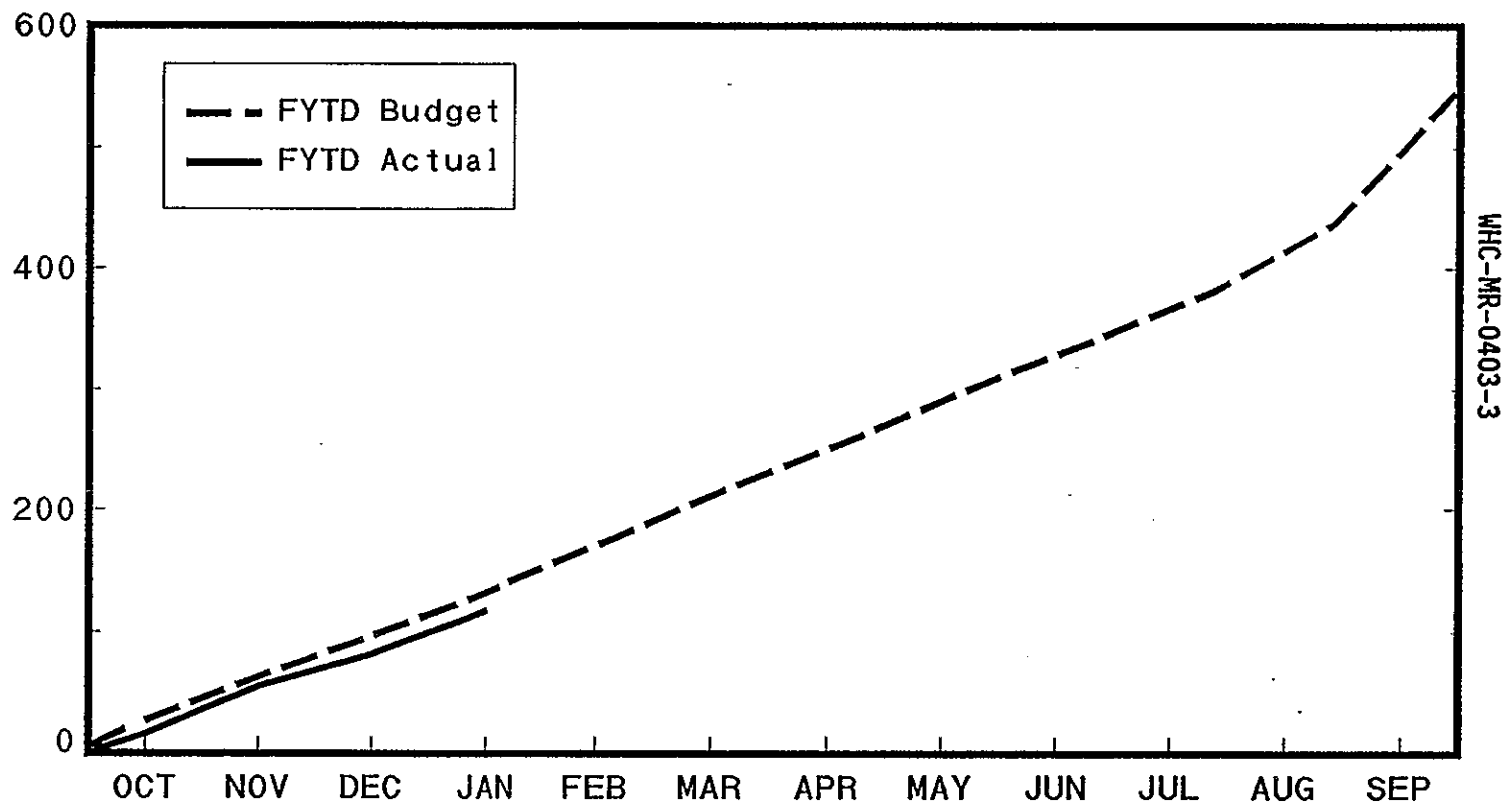
<u>Major Milestone</u>	<u>FYTD Budget</u>	<u>FYTD Cost</u>	<u>Spending Variance</u>	<u>Annual Budget</u>
M-00*	6.2	6.2	0.0	26.9
M-01	11.9	10.2	1.7	37.9
M-02	4.6	3.5	1.1	36.4
M-03*	42.2	32.0	10.2	139.8
M-04	0.0	0.0	0.0	0.2
M-05	1.4	0.9	0.5	7.9
M-06	0.0	0.0	0.0	0.0
M-07	1.0	1.0	0.0	4.8
M-08	1.0	0.5	0.5	3.3
M-09	2.4	2.3	0.1	4.3
M-10	7.7	6.9	0.8	20.4
M-11	3.9	2.8	1.1	12.5
M-12	0.3	0.1	0.2	0.6
M-13	0.5	0.1	0.4	1.6
M-14	1.8	3.9	-2.1	10.4
M-15*	24.7	21.2	3.5	95.2
M-16	3.6	2.8	0.8	15.6
M-17*	12.9	14.1	-1.2	100.4
M-18	2.6	3.6	-1.0	6.6
M-19	1.6	1.4	0.2	3.1
M-20*	3.2	2.1	1.1	9.5
M-24	0.3	1.1	-0.8	1.5
M-26	0.0	0.0	0.0	0.1
M-30	0.9	0.8	0.1	3.4
M-31	<u>2.3</u>	<u>2.0</u>	<u>0.3</u>	<u>4.0</u>
Total	<u>137.0</u>	<u>119.5</u>	<u>17.5</u>	<u>546.4</u>

* These milestones include costs from other contractors. All other milestones are WHC only.

TRI-PARTY AGREEMENT ALL MILESTONES

FY 1993

\$ Millions



FYTD Budget	27.0	64.8	99.9	137.0	178.0	220.6	260.5	303.4	341.6	382.3	438.3	546.4
FYTD Actual	16.0	53.5	82.5	119.5								
Spending Var	10.5	11.6	17.4	17.5								

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LIST OF TERMS

AAMSR	aggregate area management study reports
ACDR	Advanced Conceptual Design Report
BAT/AKART	best available technology/all known, available, and reasonable methods of prevention, control, and treatment
CAA	Clean Air Act
CSB	Canister Storage Building
CY	calendar year
DMF	Dry Materials Facility
DST	double-shell tank
EA	environmental assessment
Ecology	Washington State Department of Ecology
EIS	environmental impact statement
EPA	U.S. Environmental Protection Agency
ERA	expedited response action
FI/CMS	facility investigation/corrective measures study
FY	fiscal year
FSAR	Final Safety Analysis Report
GAO	General Accounting Office
GTF	Grout Treatment Facility
HLW	high-level waste
HQ	U.S. Department of Energy, Headquarters
HWVP	Hanford Waste Vitrification Plant
LFI	limited field investigation
NEPA	<i>National Environmental Policy Act</i>
NOI	notice of intent
NRC	U.S. Nuclear Regulatory Commission
OU	operable unit
PNL	Pacific Northwest Laboratory
PSAR	preliminary safety analysis report
QRA	qualitative risk assessment
RCRA	Resource Conservation and Recovery Act
RFP	request for proposal
RH-TRU	remote handled transuranic
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Field Office
ROD	record of decision
SAR	safety analysis report
SEIS	supplemental environmental impact statement
SST	single-shell tank
TBD	to be determined
TOE	total operating efficiency
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TRU	transuranic
TSD	treatment, storage, and disposal
TWR	tank waste remediation
TWRS	tank waste remediation system
VES	vapor extraction system
VBF	Vitrification Building Foundation
WHC	Westinghouse Hanford Company
WIPP	Waste Isolation Pilot Plant
WRAP	waste receiving and processing
WSCF	Waste Sampling and Characterization Facility

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MAJOR MILESTONE: M-01-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: G. H. Sanders

MANAGER: J. L. Epstein

BASELINE DATE: December 1996

PROJECTED DATE: To be determined (TBD)

DESCRIPTION: Complete 14 grout campaigns.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED*
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (this includes one campaign of phosphate-sulfate waste).	9/93	10/94
M-01-01B	Complete one additional campaign of DST waste (this makes a total of three campaigns including one phosphate-sulfate waste campaign)	12/93	TBD

*Projected date reflects *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) Change Request M-01-92-01A.

ACCOMPLISHMENTS

- Completed procurement and installation of tank 241-AP-102 mixer pump variable speed drive. This engineering solution was successful in the operation of the mixer pump.
- Completed and issued a draft engineering study for a hot pilot run of grout. This study was directed by the U.S. Department of Energy, Richland Field Office (RL).
- Completed "as built" drawings of the Dry Material Facility (DMF).

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete fabrication of the core drill truck at Westinghouse Hanford Company (WHC) fabrication shops.
- Continue preparation of the *Draft Grout Technology Plan*.
- Continue detailed design for the Decontamination/Additive Module confinement basin.

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- Continue modeling activities for base and sensitivity cases. Variations in hydraulic properties of grout and the barriers have been modeled as well as possible changes in hydraulic properties associated with various sizes of cracks in the asphalt cocoon.
- Proceed with the evaluation of estimated toxic component exposure to support a Topic Air Permit application to the Washington State Department of Ecology (Ecology).
- Continue development of resource-loaded integrated schedules.
- Continue work on *Double-Shell Tank Vault Closure Plan*, which includes a section addressing the impacts of gas generation and mitigation.
- Continue developing nondestructive testing techniques associated with vault 102.

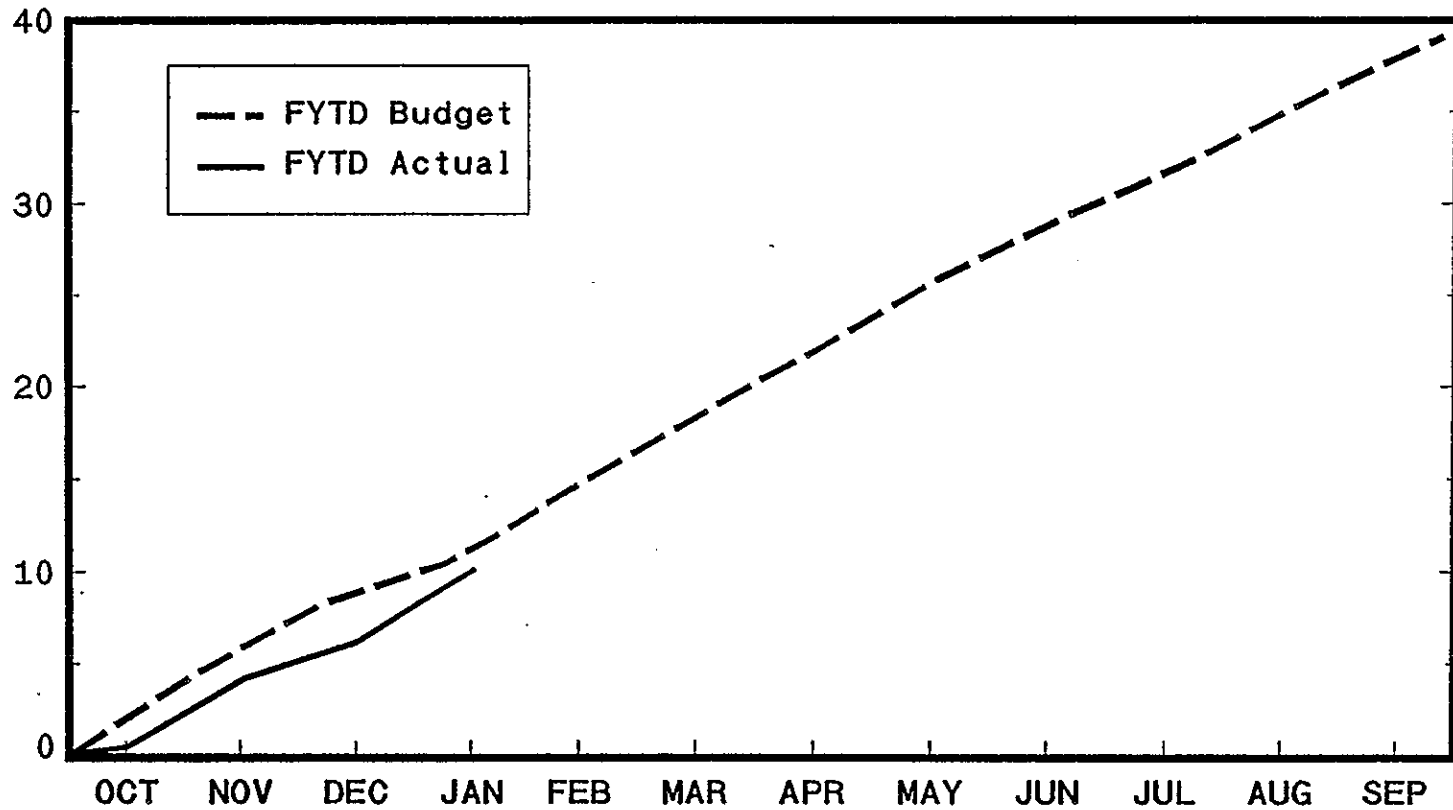
MILESTONE STATUS/PROBLEMS/ISSUES

- Reworking the Performance Assessment (U.S. Department of Energy, Headquarters [HQ] Peer Review Panel Comments/Recommendations) has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying Grout Treatment Facility (GTF) Tri-Party Agreement milestones. (Reference Change Request M-01-92-01A)
- Heat of hydration and the time necessary to pour a grout campaign to ensure a "good" grout may impact the timely completion of grout milestones.
- The U.S. Nuclear Regulatory Commission (NRC) delay in reaching a decision on the Washington and Oregon States' petition for high-level waste (HLW) is creating program planning uncertainties.
- Starting up the GTF and initiating grout vault 102 filling to meet Milestone M-01-01A schedule (complete and verify two campaigns of DST waste by 1993) is highly unlikely, as documented in Change Request M-01-92-01A.

MILESTONE M-01-00

FY 1993

\$ Millions



WHC-MR-0403-3

FYTD Budget	2.7	6.6	9.9	11.9	15.3	18.8	22.3	26.0	29.0	31.7	35.0	37.9
FYTD Actual	0.5	4.2	6.2	10.2								
Spending Var	2.2	2.4	3.7	1.7								

Variance Explanation: See attached

MILESTONE M-01-00

Fiscal Year (FY) 1993

Variance Explanation:

Spending was reduced due to delays in the Final Safety Analysis Report (FSAR) review work package, operational and maintenance activities for corrective maintenance, and hiring and training of additional operators. Tank 241-AW-101 formulation is delayed because the tank is now on the "watch list." There is a hold on fabrication of core drill equipment. Document work is delayed due to manpower constraints.

Staff planning is being re-evaluated pending head-count ceiling negotiations. Contracts for engineering support have been initiated, and Kaiser work orders have been prepared to supplement manpower shortfall.

Formulation and characterization activities have been initiated for Tank 241-AP-105 to replace Tank 241-AW-101, and authorization has been given to proceed on the core truck/transfer cask assemblies.

The WHC cost account planning for this milestone has decreased by \$2 million from the December 1992 report due to the transfer of funding and scope to Pacific Northwest Laboratory (PNL).

MAJOR MILESTONE: M-02-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Initiate pretreatment of DST waste.

DST waste pretreatment is required before disposal of high-activity tank wastes. Pretreatment supports the removal, treatment, and final disposal of wastes subject to land disposal restrictions stored in DSTs. Removal of the wastes from the DSTs and disposal in grout or glass will free DST space for single-shell tank (SST) waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-02-03	Submit tank waste remediation system (TWRS) baseline scope, cost, and schedule.	8/31/93	8/31/93
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	8/31/93

ACCOMPLISHMENTS

- Issued the *Tank Farm Restoration and Upgrades Program Plan*, WHC-EP-0392 Rev. 1, on January 27, 1993, thus meeting Target Milestone M-02-03-T1.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete development of plans and resource-loaded schedules for waste retrieval and pretreatment, as part of TWRS rebaselining.
- Prepare a retrieval program plan and technology development plans for retrieval and pretreatment.
- Complete a study to establish the near-term DST-SST retrieval sequence in support of pretreatment of tank wastes.
- Complete an engineering study on waste pretreatment feed optimization (blending).

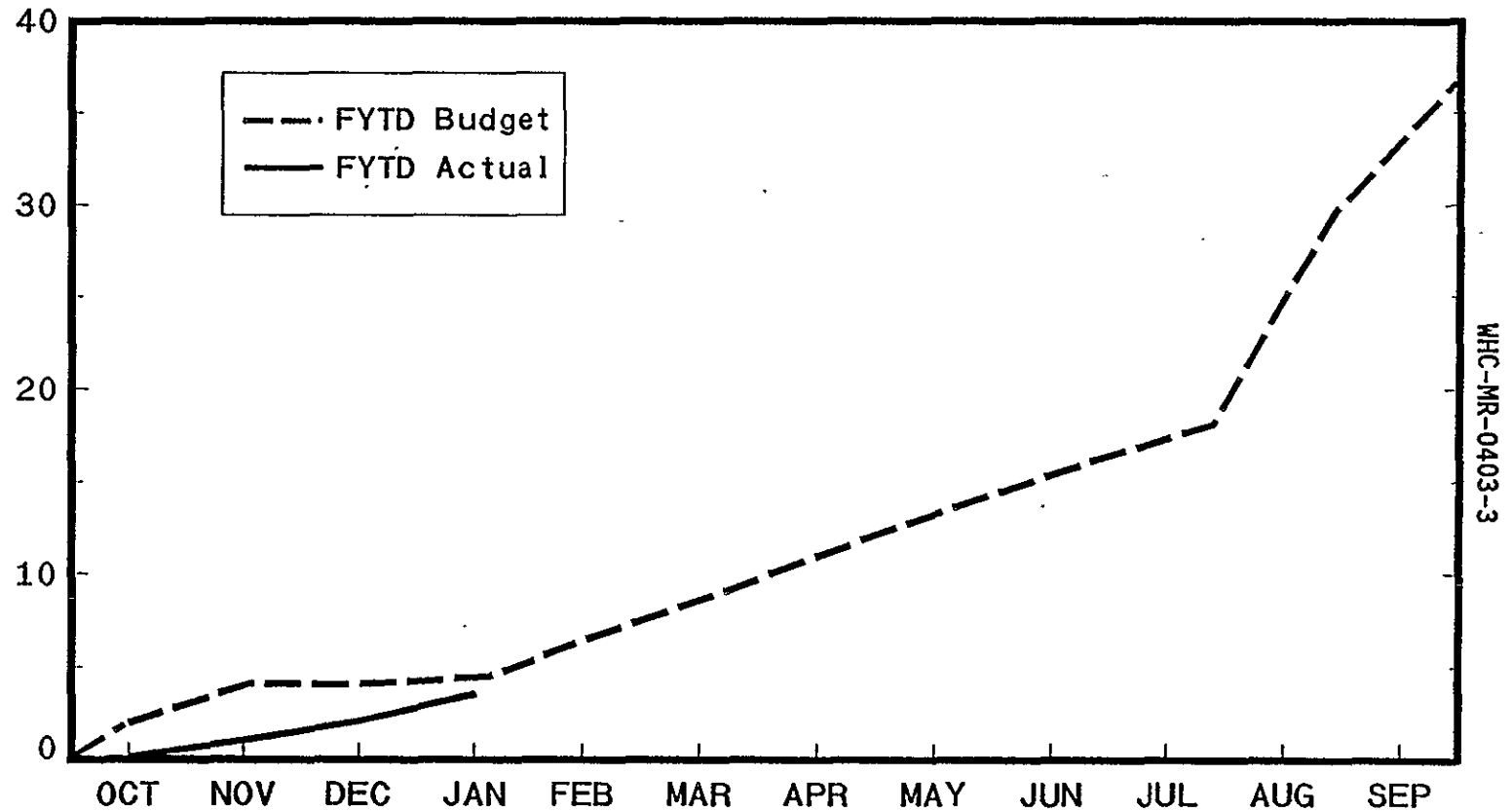
MILESTONE STATUS/PROBLEMS/ISSUES

- Target Milestone M-02-00-T03, "Publish Summary of NCAW TRUEX Laboratory Development Work," is still 3 months behind schedule. The study is expected to be completed in March 1993.
- Reanalysis of Target Milestone M-02-00-T07, "Initiate Settling Tests for NCAW In-Tank Solids Washing" shows this work can be delayed without impacting pretreatment work. Negotiations with Ecology have begun to allow a year delay of this milestone.

MILESTONE M-02-00

FY 1993

\$ Millions



FYTD Budget	2.0	4.1	4.1	4.5	6.8	9.0	11.5	13.8	16.0	18.0	29.4	36.4
FYTD Actual	0.0	1.0	2.1	3.5								
Spending Var	2.0	3.1	2.0	1.0								

Variance Explanation: See attached.

WHC-MR-0403-3

MILESTONE M-02-00 FY 1993

Variance Explanation:

Due to schedule delays on Project W-151, "101-AZ Retrieval Systems," and selection of the Architect-Engineer on Project W-236B, "Initial Pretreatment Module," costs have not been incurred at the planned rate.

The spending variance will be reduced by increased emphasis on acquiring staff, either contracted or in-house.

The annual budget for the WHC portion of the M-02 work scope was reduced by \$6 million from the December 1992 report due to the transfer of funds from WHC to PNL.

MAJOR MILESTONE: M-03-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: December 1999

DESCRIPTION: Initiate Hanford Waste Vitrification Plant (HWVP) operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-03-04	Initiate construction of the Canister Storage Building or Multi-Purpose Storage Complex.	2/93	2/93
M-03-05	Initiate construction of the Vitrification Building foundation (VBF).	3/93	3/93

ACCOMPLISHMENTS

- Ecology issued a draft construction permit; RL and WHC are now reviewing this permit. Washington State Department of Health is preparing a construction permit; it should be issued March 31, 1993.
- Completed design on VBF (B210).
- Received Key Decision 3B, "Approval to Commence Construction of Canister Storage Building (CSB)," and awarded contract for excavation of the CSB foundation.
- Continued detailed design (52% complete).
- Resolved HQ preliminary safety analysis report (PSAR) review comments sufficiently to support construction schedule.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Start excavation and construction of the Canister Storage Building and Vitrification Building.

MILESTONE STATUS/PROBLEMS/ISSUES

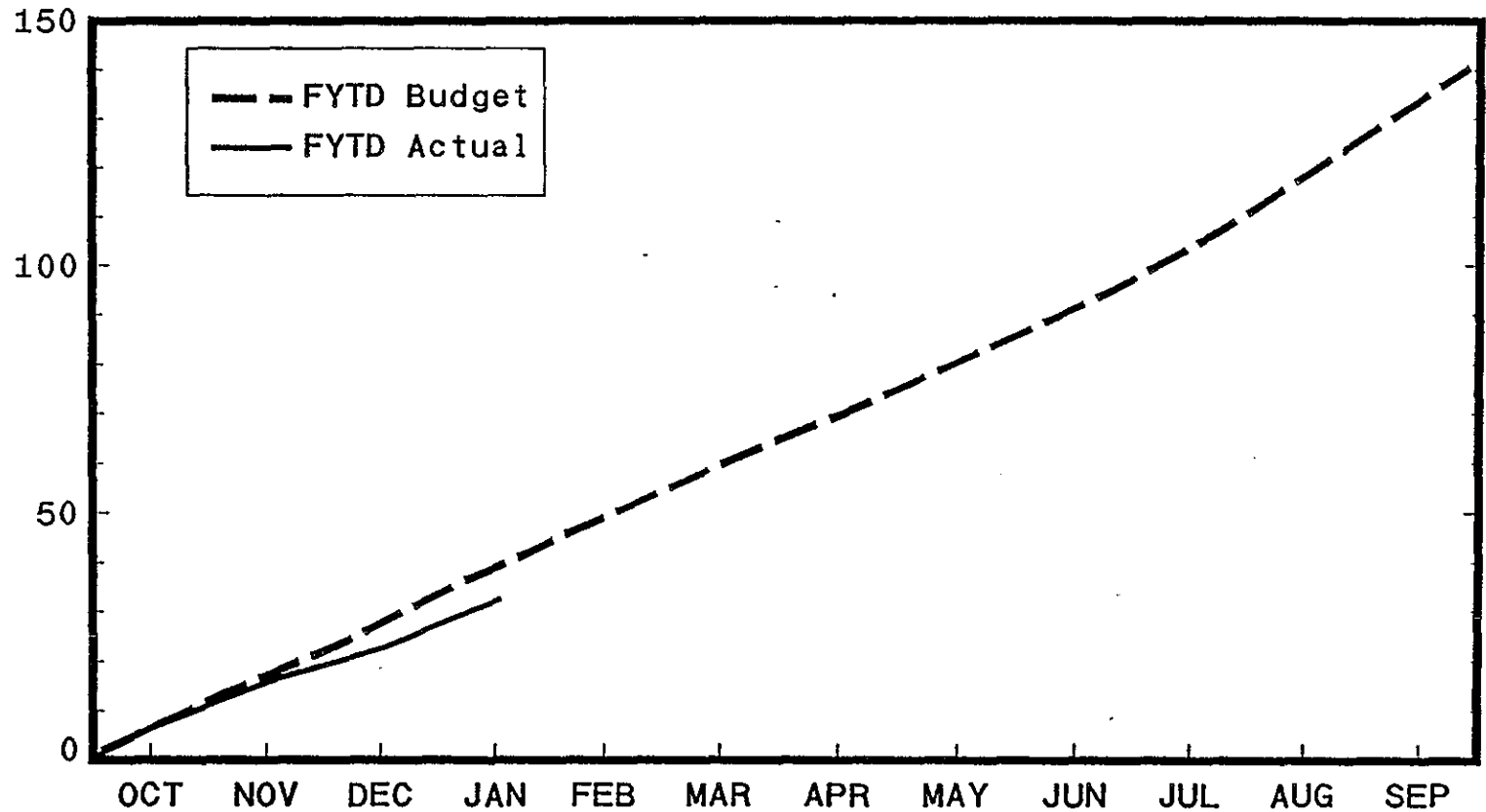
- TWRS program rebaselining including uncertainties associated with pretreated feed for the HWVP Project is undergoing evaluation. Completion is planned for March 1993.

- Rescoping of the Multi-Function Waste Tank Facility project could require incorporating lag storage tank capability within the HWVP facility.
- Plant operating efficiency is influenced by an overcrowded laydown area. Several improvements are being examined:
 - Expansion of the Shipping and Receiving Building at the north end of the Vitrification Building to provide additional equipment lay down space
 - Reduced equipment storage space requirements via use of "universal" handling equipment
 - Total operating efficiency (TOE) assessment study to predict equipment failure frequency and project space requirements.
- Handling and disposal of solid waste generated within the Vitrification Building.
 - A study is being done to examine a TWRS solid waste handling facility.

MILESTONE M-03-00

\$ Millions

FY 1993



WHC-MR-0403-3

FYTD Budget	9.3	20.2	30.5	42.2	52.5	63.3	73.4	84.8	95.6	108.4	123.9	139.8
FYTD Actual	6.2	15.8	22.5	32.0								
Spending Var	3.1	4.4	8.0	10.2								

Variance Explanation: See attached.

MILESTONE M-03-00 FY 1993

Variance Explanation:

The majority of the spending variance is a result of the following:

Fluor Daniel is underspent because the FY 1993 Budget is based on a staffing plan to accomplish a design completion in June 1994, but staff is being hired to support a delay to that goal to December 1994. Change request HWVP-0713 is in process to replan the Fluor budget to be consistent with Design completion in December 1994 and reschedule a portion of the FY 1993 work to FY 1994.

UCAT is underspent because site construction packages are delayed by weather, delayed key decisions, and subcontractors not progressing as scheduled. Also contributing to the spending variance is the delay of approval to commence construction of the Vittrification Building foundation because Key Decision 3B, planned for November 1992, is now forecasted for a March 1993 completion. Staffing and associated costs have been delayed for construction management. Recommendations are to allow UCAT to proceed with Vittrification Building excavation and foundation slab construction packages to minimize a potential delay to project completion.

MAJOR MILESTONE: M-04-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: September 30, 1993

PROJECTED DATE: September 30, 1993

DESCRIPTION: Provide annual reports of tank waste treatability studies.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

ACCOMPLISHMENTS

- No action at this time.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- None.

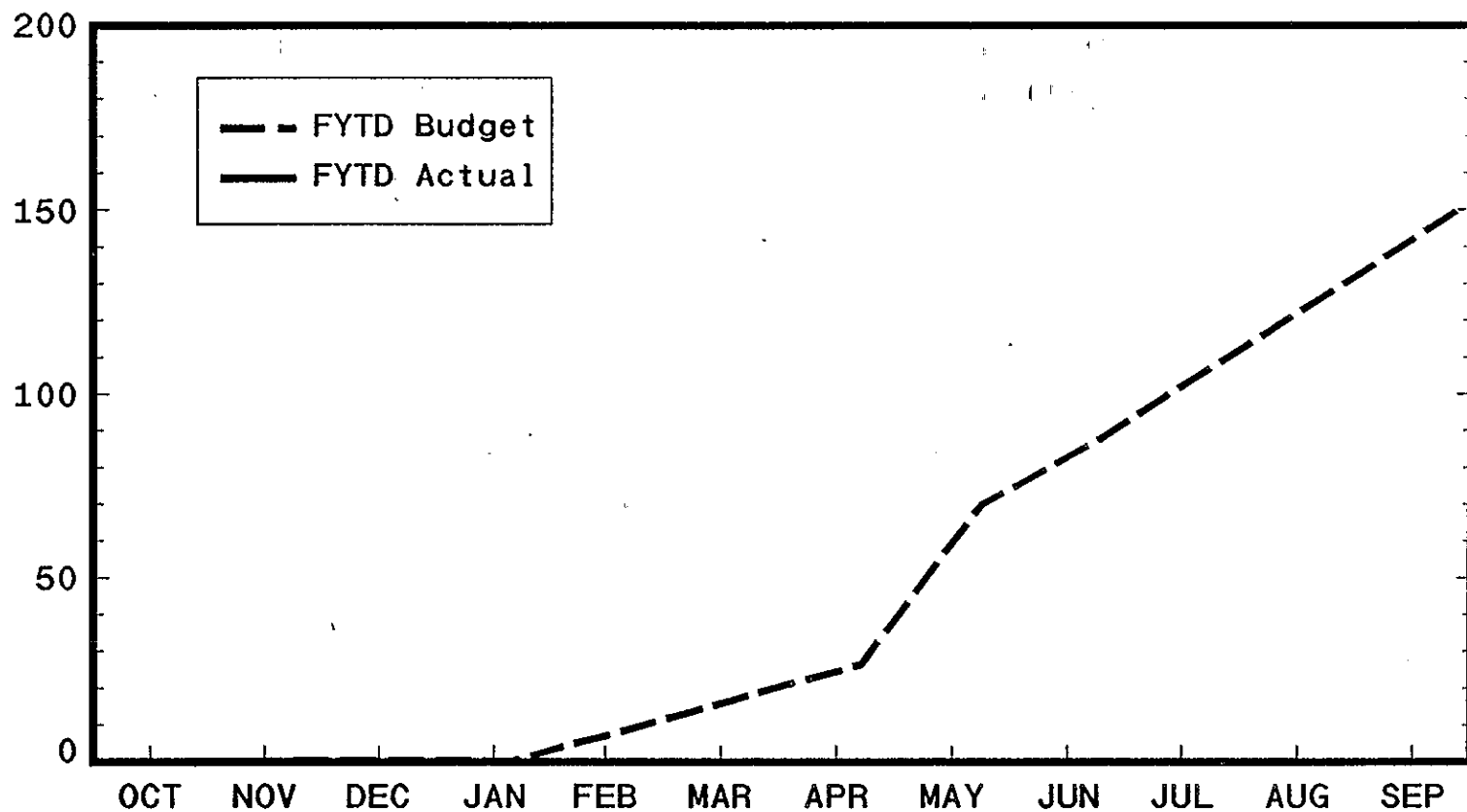
MILESTONE STATUS/PROBLEMS/ISSUES

- None.

MILESTONE M-04-00

FY 1993

\$ Thousands



WHC-MR-0403-3

FYTD Budget	0.0	0.0	0.0	0.0	8.4	17.7	26.6	70.1	88.3	109.1	129.9	150.8
FYTD Actual	0.0	0.5	0.5	0.5								
Spending Var	0.0	(0.5)	(0.5)	(0.5)								

Note: This chart is in thousands to provide meaningful data. The Budget Baseline Summary table shows zero because it is in millions.

MAJOR MILESTONE: M-05-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete SST interim stabilization.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-05-03	Interim stabilize an additional four SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional nine SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD
M-05-13	Upgrade leak detection and site characterization at Tanks 241-C-105 and 241-C-106.	4/93	4/93
M-05-14	Provide report on alternatives to pumping a leaking tank.	3/93	3/93
M-05-15B	Provide report on in-tank liquid level detection options for Tank 241-T-101.	3/93	3/93
M-05-16	Initiate pumping of Tank 241-T-101.	3/15/93	3/15/93
M-05-17B	Complete nuclear operator training.	12/93	12/93
M-05-17C	Provide schedule for completing operations supervisor and shift manager training.	6/93	6/93

ACCOMPLISHMENTS

- Completed Interim Milestones M-05-11, M-05-15A, M-05-18A, and M-05-18B.
- Completed approval of two Tri-Party Agreement change control forms on January 21, 1993. This action added 13 new interim milestones and four new target milestones. Of these new milestones, six interim and three target milestones have been successfully completed.

- Provided DOE with the documents (i.e., safety evaluations, criticality justification for continued operation, and safety assessments) required before the pumping of assumed leaking Tank 241-T-101 begins.
- Provided Ecology with revised data sheets and administrative procedures on monitoring SST 241-T-101 liquid level detection instruments. This completes Interim Milestone M-05-18A.
- Provided Ecology with revised procedures to control and track discrepancy reports generated to document adverse trends or data anomalies. This completes Interim Milestone M-05-18B.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Initiate the pumping of assumed leaking SST 241-T-101.
- Meet with regulators and develop a new Tri-Party Agreement change package for FY 1992 and beyond non-watchlist tank stabilizations. A recommended change control package is in review at RL.
- Complete physical logging of 14 drywells at Tanks 241-C-105 and -106 using a spectral gamma probe.
- Complete engineering evaluation of alternatives for response to 241-T-101 assumed leak.
- Provide a letter report on in-tank liquid level detection options for assumed leaking SST 241-T-101.
- Issue schedule for completing operations supervisor and shift manager training (M-05-17C).
- Complete safety analysis report (SAR) addendum to allow alternative methods for transfer of radioactive waste within SST farms.
- Complete integrity assessment of waste transfer lines.

MILESTONE STATUS/PROBLEMS/ISSUES

- In September 1992, SST 241-T-101 was declared an assumed leaker. Steps are under way to remove the drainable liquid to at least a level that will cease discharging waste to the surrounding soils. Engineering and safety reviews have been conducted, and systems are being put into place to start the drainable liquid removal as quickly as it is safe and prudent to do so.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. For personnel safety reasons, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200 Area tank farms were halted due to concerns on fissile material inventory. The cessation on

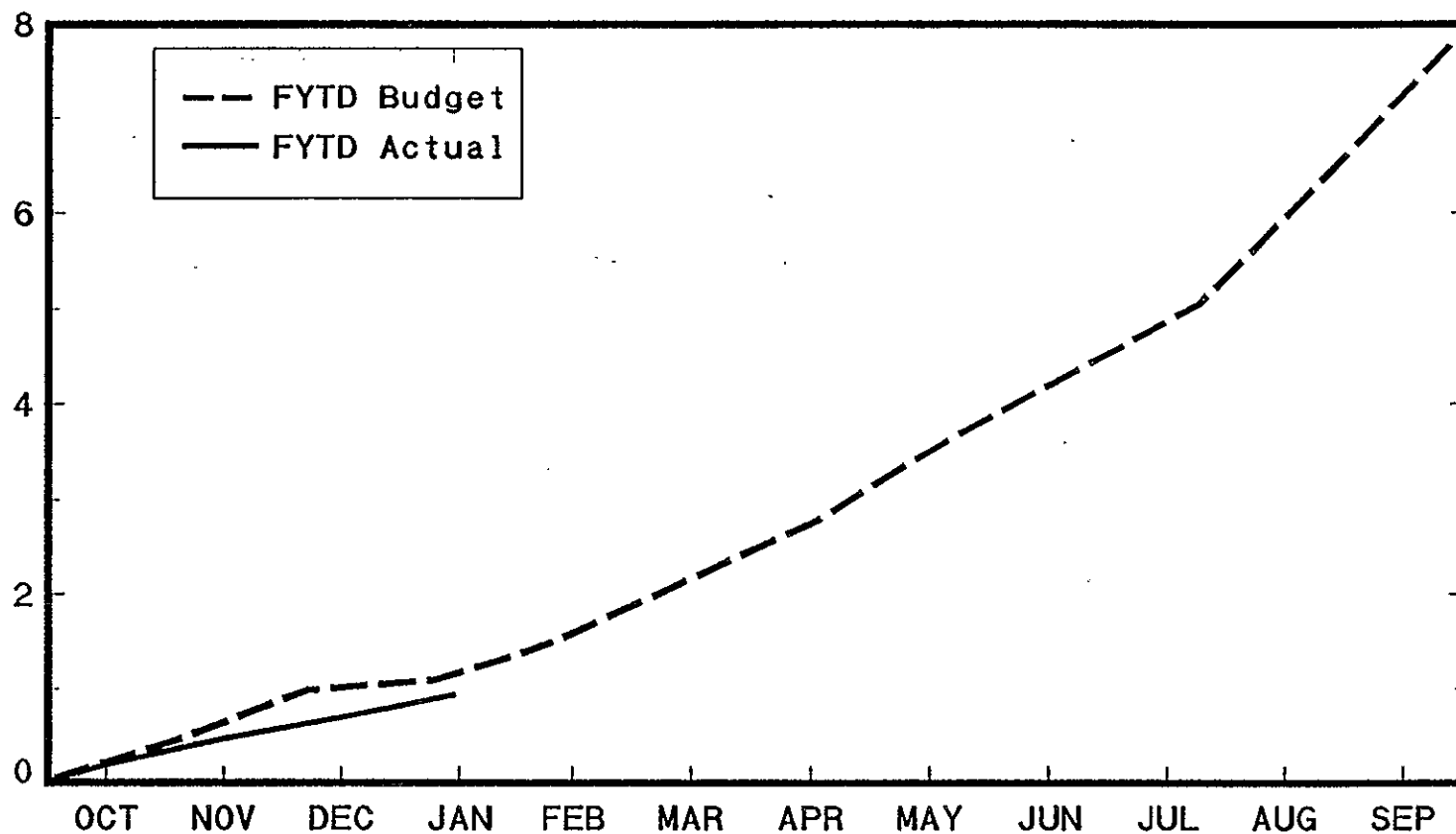
waste transfers continues. The impacts to the Tri-Party Agreement will result in a proposed Tri-Party Agreement Change Request.

- A safety question was raised regarding the hazards associated with removing liquid from SSTs and the resultant drying of the wastes potentially causing increases in tank content temperatures. Analyses and studies continue on this question.
- The spectral gamma logging of the dry wells around Tanks 241-C-105 and -106 has been adversely impacted by winter weather conditions and the ability to access dry wells with the spectral gamma logging equipment. Two wells have physical access limitations that may impact the ability to log those two wells.

MILESTONE M-05-00

FY 1993

\$ Millions



WMC-MR-0403-3

FYTD Budget	0.4	0.8	1.3	1.4	1.8	2.4	3.0	3.8	4.5	5.2	6.5	7.9
FYTD Actual	0.1	0.4	0.6	0.9								
Spending Var	0.3	0.4	0.7	0.5								

Variance Explanation: See Attached.

MILESTONE M-05-00 FY 1993

Variance Explanation:

The fiscal-year-to-date spending variance is a result of SST 241-T-101 emergency actions which continue without specifically identified funding. These activities have deferred resources from stabilization and isolation workscope to prepare 241-T-101 for emergency pumping. This is scheduled to be completed in June 1993. Alternative plans are being pursued to enlist additional resources (KEH) to support SST stabilization and isolation. The ongoing rebaselining of the N1 program will identify specific resources to be used for 241-T-101 emergency corrective actions.

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MAJOR MILESTONE: M-06-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Develop SST waste retrieval technology and complete scale-model testing.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Completed Bentonite testing on soft-waste removal device. The results of this test were very encouraging, exceeding expected retrieval rates.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete tests of soft waste removal device with kaolin simulants, which are used to simulate dry sludge wastes.
- Initiate testing of confined sluicing devices.
- Initiate testing of water jets for waste dislodging and conveyance assistance.
- Retrieval rates will be experimentally optimized using computer modeling. The air lift conveyance system limits will be defined.

MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-06-00 FY 1993

Financial data for January 1993 was not available at the time of this report. Cost and budget information through December 1992 is as follows:

(In Thousands)

FYTD Budget	\$ 706
FYTD Cost	<u>632</u>
Spending Variance	<u>74</u>
Annual Budget Projection	\$3,400

Variance Explanation: The variance is due to delays in contract placements for testing and equipment at various labs.

MAJOR MILESTONE: M-07-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-07-02	Ecology concurrence/non-concurrence of SST selection criteria, retrieval options, and tank selection.	12/93	03/93

ACCOMPLISHMENTS

- Completed and submitted the revised and updated plan on SST selection criteria and retrieval options for interim milestone M-07-01. This completes the interim milestone eight months ahead of schedule.
- Continued studies on the potential application of subsurface barriers to restrict the flow of waste that may leak from a tank during retrieval activities. These studies included participation by the regulators.
- Waste retrieval from an SST (M-07-00) has been identified in the DOE process as a "Project," and will receive funding in accordance with that established process.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Develop a detailed plan for milestone M-07-00 achievement, integrated with Milestone M-06-00, "Develop SST Waste Retrieval Technology" and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Commence environmental and regulatory compliance documentation as required by the *Resource Conservation and Recovery Act* (RCRA), the *Clean Air Act* (CAA), and the *National Environmental Policy Act* (NEPA).
- Complete preliminary analyses on potential leaks from Tank 241-C-106 during sluicing retrieval of the waste. Review the results of this work with the regulators.
- Obtain regulator concurrence on a selected tank (241-C-106) and sluicing as an acceptable method for tank waste retrieval.

MILESTONE STATUS/PROBLEMS/ISSUES

- The impacts of performing NEPA analyses (environmental assessment [EA] or environmental impact statement [EIS]) are being studied. Preliminary assessments indicate that NEPA could pose substantial schedule risk to this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will be initiated with sluicing technology. Significant development work is required before using additional retrieval technologies. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95% waste retrieval criteria for the M-07 demonstration.

If sluicing is not accepted for the M-07-00 retrieval demonstration (Interim Milestone M-07-02), this milestone may require a Tri-Party Agreement change request because of a lack of available commercial technology, multiyear development efforts, and procurement lead-time restrictions.

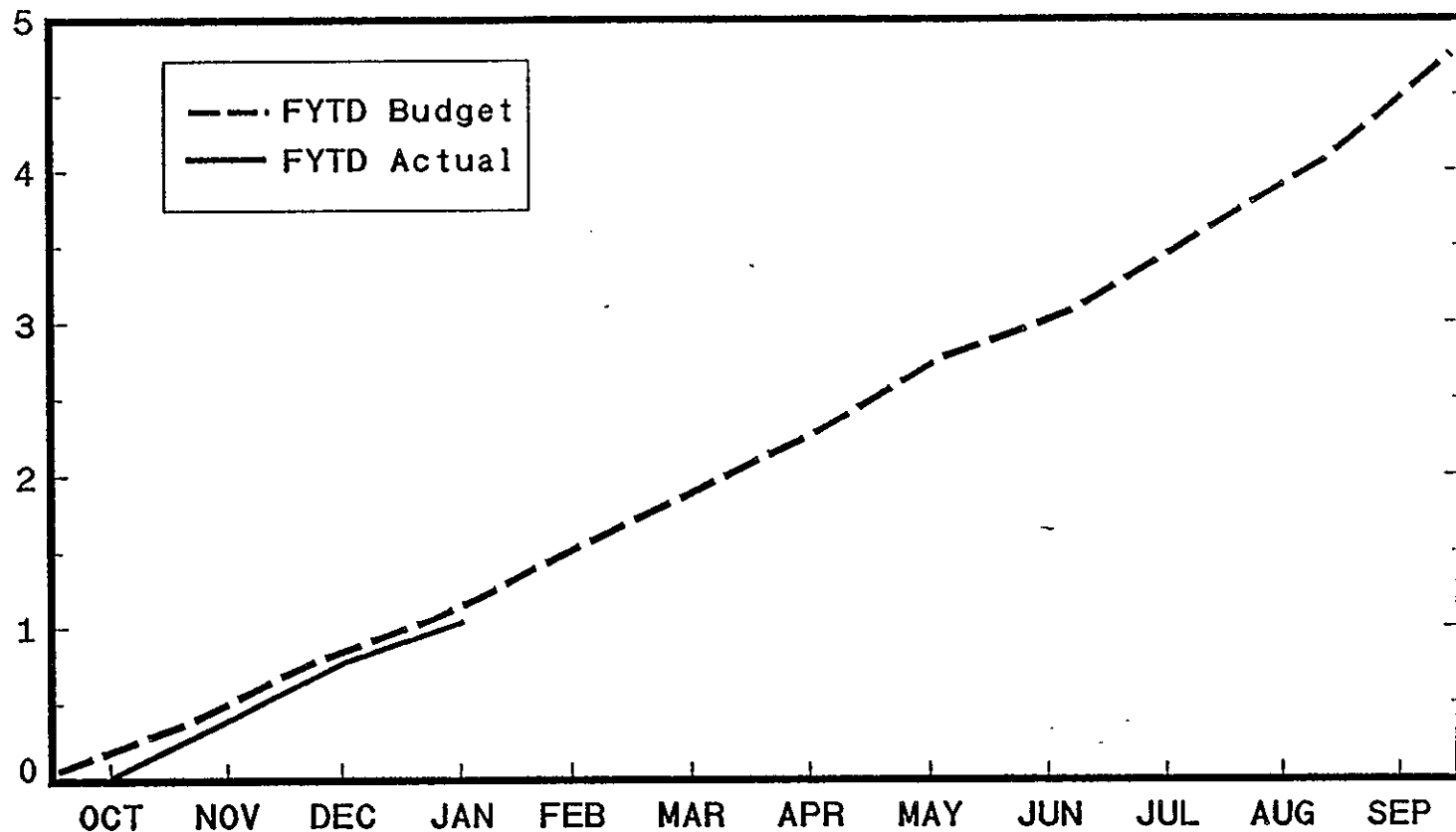
- The preliminary studies on subsurface barriers (see bullet under "Accomplishments") shows this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone may ensure that the milestone cannot be met as scheduled.

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MILESTONE M-07-00

FY 1993

\$ Millions



FYTD Budget	0.1	0.4	0.8	1.1	1.5	1.9	2.3	2.8	3.1	3.6	4.1	4.8
FYTD Actual	0.0	0.3	0.7	1.0								
Spending Var	0.1	0.1	0.1	0.1								

Variance Explanation: Underrun condition is due to delays in walkdowns because of weather conditions as well as billing delays from off-site vendor and review groups.

MAJOR MILESTONE: M-08-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Completed Phase I systems engineering study for subsurface barrier development in a tank farm.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete a tank farm retrieval program plan.
- Initiate Phase II of the subsurface barrier development study.

MILESTONE STATUS/PROBLEMS/ISSUES

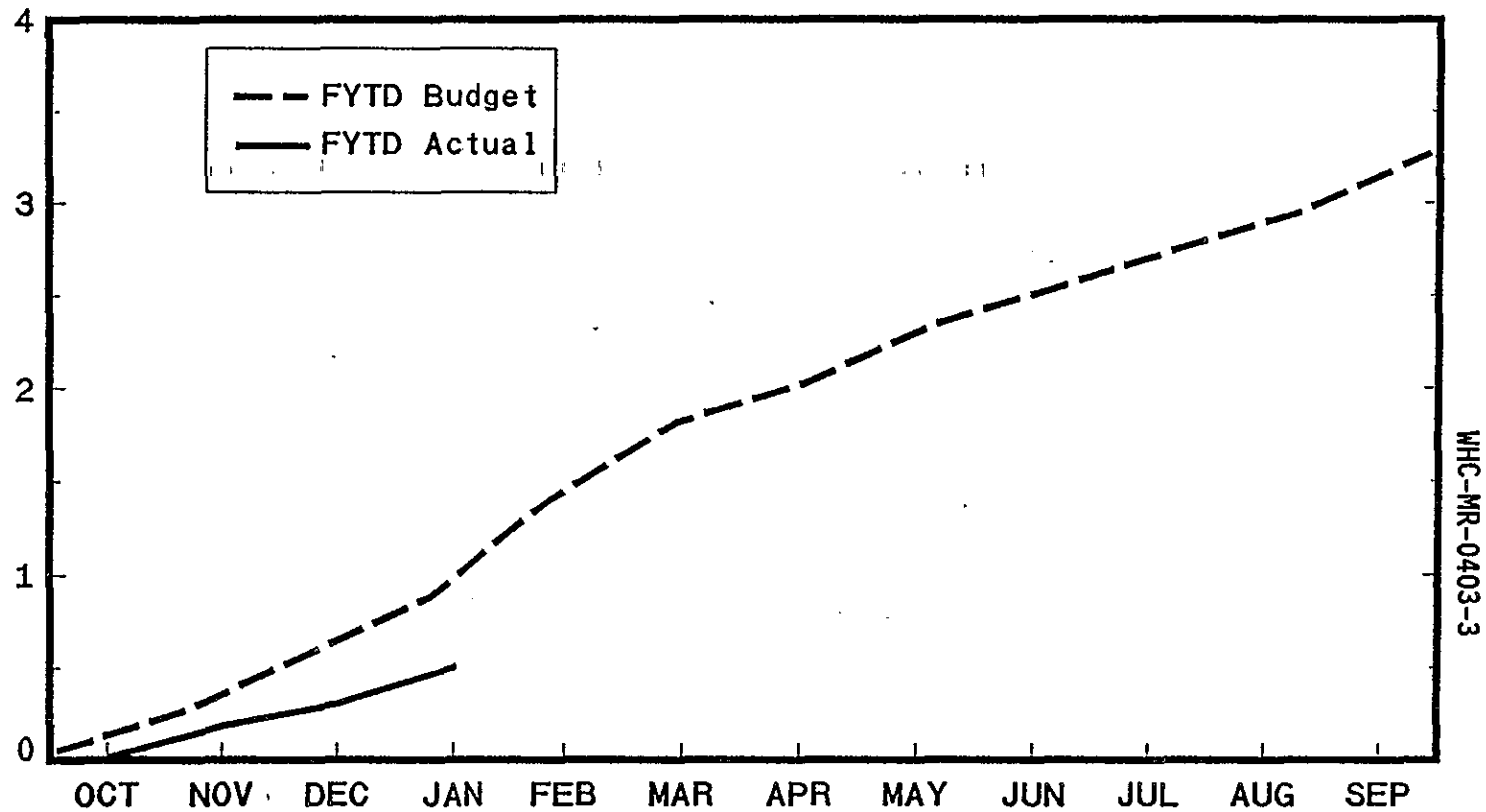
- This milestone is on schedule.

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MILESTONE M-08-00

FY 1993

\$ Millions



WIC-MR-0403-3

FYTD Budget	0.2	0.4	0.7	1.0	1.5	1.9	2.1	2.4	2.6	2.8	3.0	3.3
FYTD Actual	0.0	0.2	0.3	0.5								
Spending Var	0.2	0.2	0.4	0.5								

Variance Explanation: Manpower restrictions have delayed start of a number of activities. Also, internal and external reviews have not occurred as planned. If the staff ceiling cannot be lifted, staff will be reassigned to this effort.

MAJOR MILESTONE: M-09-00
 STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Continued borehole drilling and characterization activities around SST 241-T-106 for the field characterization work to support General Accounting Office (GAO) Audit item (GAO-RCED-89-157). The borehole has reached the caliche layer at 90 feet; environmental and geophysical sampling continues. This activity is continuing after several meetings with the regulators to resolve outstanding issues.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Redefine SST waste disposal strategy under the TWRS Decision Plan.
- Issue to the Federal Register a notice of intent (NOI) for the TWRS-EIS for tank remediation at the Hanford Site.
- Commence work on the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

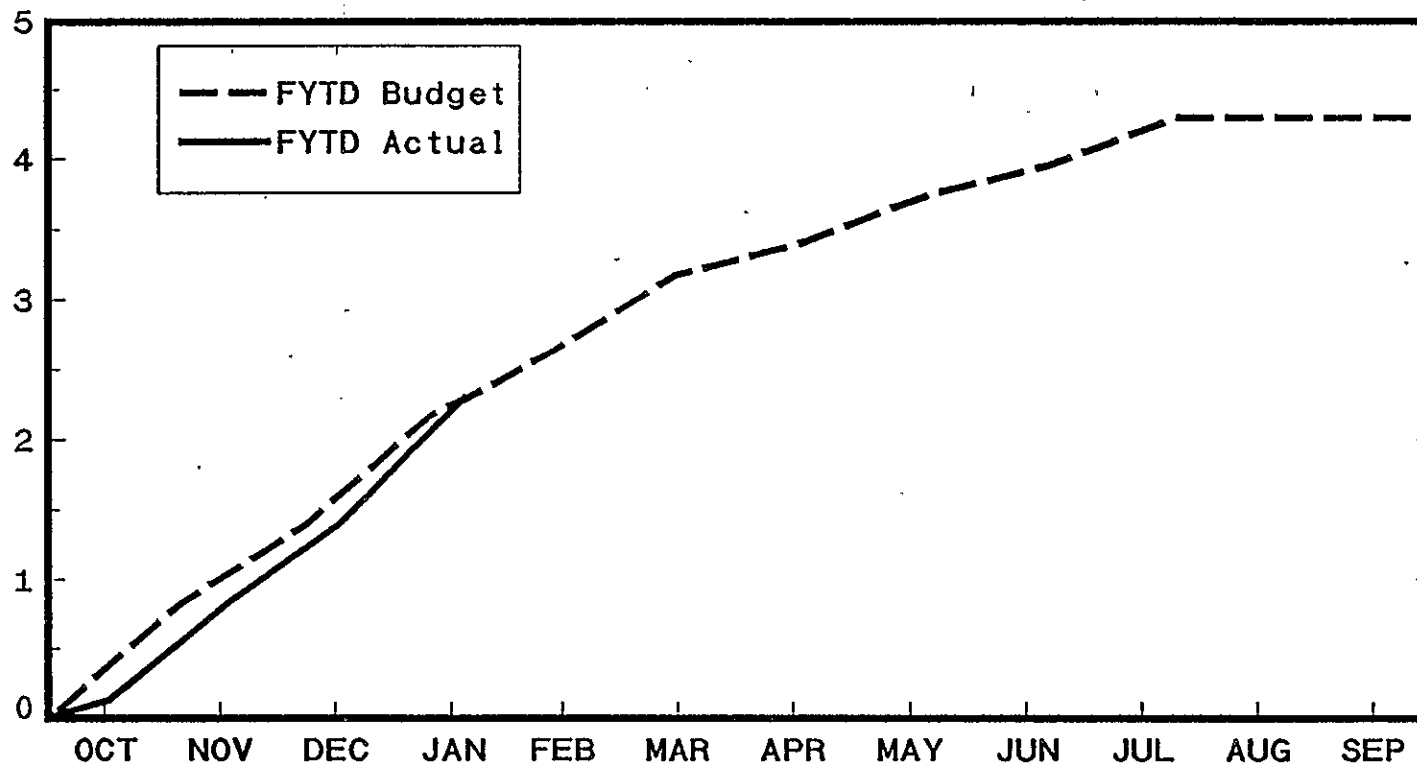
MILESTONES STATUS/PROBLEMS/ISSUES

- This milestone is on schedule; however, it may be in jeopardy unless pre-closure activities can be accelerated; for example: Supplemental Environmental Impact Statement and Record of Decision (SEIS-ROD) preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.

MILESTONE M-09-00

FY 1993

\$ Millions



WHC-MR-0403-3

FYTD Budget	0.5	1.2	1.7	2.4	2.8	3.3	3.5	3.8	4.0	4.3	4.3	4.3
FYTD Actual	0.1	0.8	1.4	2.3								
Spending Var	0.4	0.4	0.3	0.1								

Variance Explanation: Annual budget increase from \$3M in December to \$4.3M in January is due to the addition of the tank waste remediation system study and regulatory compliance workscope.

MAJOR MILESTONE: M-10-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

DESCRIPTION: Complete analyses of at least two complete core samples from each SST.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary model sampling capability at the Hanford Site.	9/93	9/93

ACCOMPLISHMENTS

- Resumed core sampling activities after having been in stop-work mode, resulting from safety assessment audits. All issues have been resolved and core sampling work will proceed towards meeting the milestones.
- Completed the first draft of the Characterization Strategic Plan.
- The reevaluation of the rotary mode modular exhaustor design has resulted in a redesign to reduce size and potentially improve mobility.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue rotary mode sampling testing and implementation
- Issue the Tank Waste Remediation Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all tank waste remediation (TWR) requirements into a single plan.
- Commence discussions with the regulators on new HQ direction which proposes the SST Characterization Program and associated Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data will be required to (1) resolve tank safety issues; (2) develop retrieval technologies; and (3) identify pretreatment technologies. Once agreement is reached on this new baseline, the changes will need to be reflected in the Tri-Party Agreement major Milestone M-10-00.

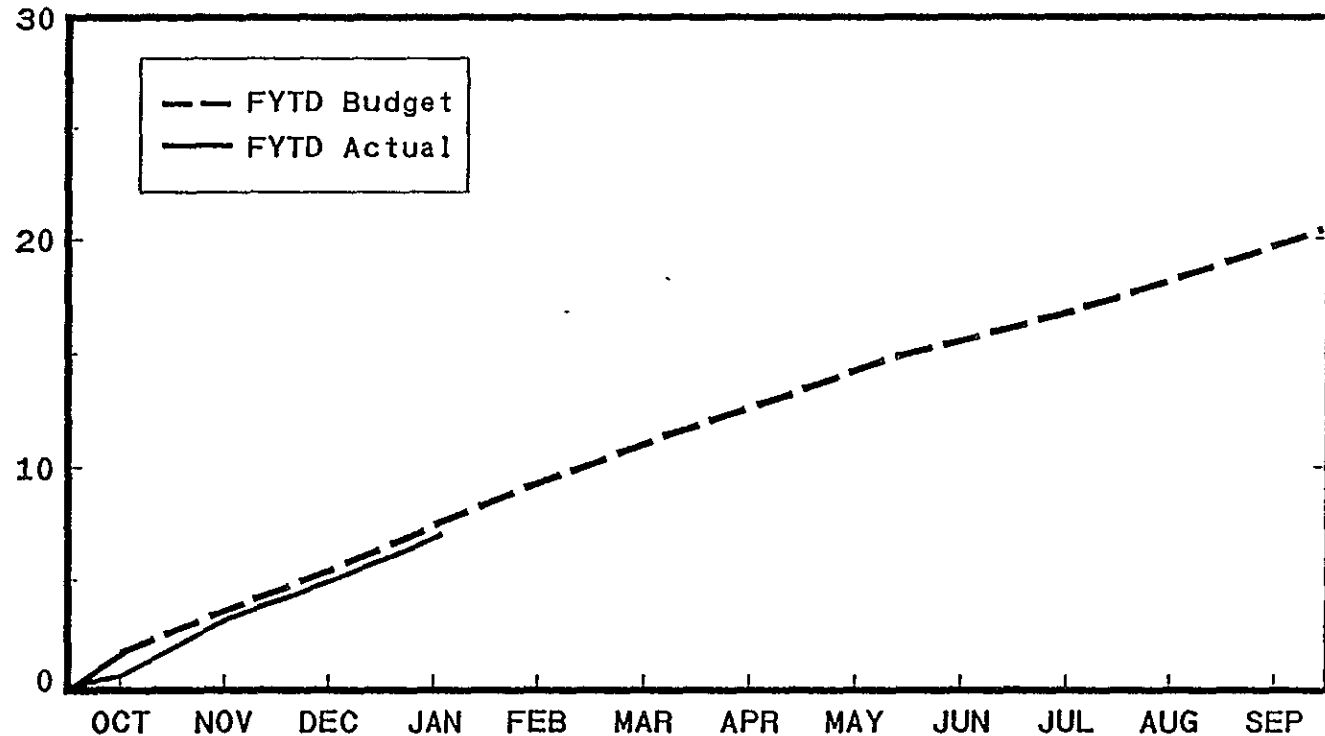
MILESTONE STATUS/PROBLEMS/ISSUES

- The major milestone is on schedule; however, Interim Milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internal and in consonance with the regulators. These are being discussed with the regulatory community.
- The redesign of the modular exhauster for the rotary mode sampling system may effect completion of the M-10-13 milestone as scheduled. All efforts are being made to meet the milestone on schedule.

MILESTONE M-10-00

FY 1993

\$ Millions



FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.0	14.7	16.0	17.3	18.8	20.4
FYTD Actual	0.6	3.1	4.9	6.9								
Spending Var	1.1	0.6	0.7	0.6								

Variance Explanation: WHC has temporarily suspended core sampling activities. Of the three core samples scheduled only one has been taken. Actual costs for work performed by PNL for SST Core Analysis and Analytical Methods Development activities have not been received. Core sampling procedures and pre-job briefings will be improved.

WHC-MR-0403-3

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MAJOR MILESTONE: M-11-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

DESCRIPTION: Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Onsite construction on Laboratory 222-S expansion for new hot cells experienced a 2 to 3 week delay due to weather. Construction activities resumed when weather permitted, and the critical path was not impacted. The building floor and filter room floor have been poured. Offsite fabrication of the hot cell fabrication also experienced a slight weather delay, but critical path was not impacted.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue W-041H construction and fabrication activities. Witness the trial assemblies of the hot cell compartments. Erect building walls and roof and complete hot cell installation.

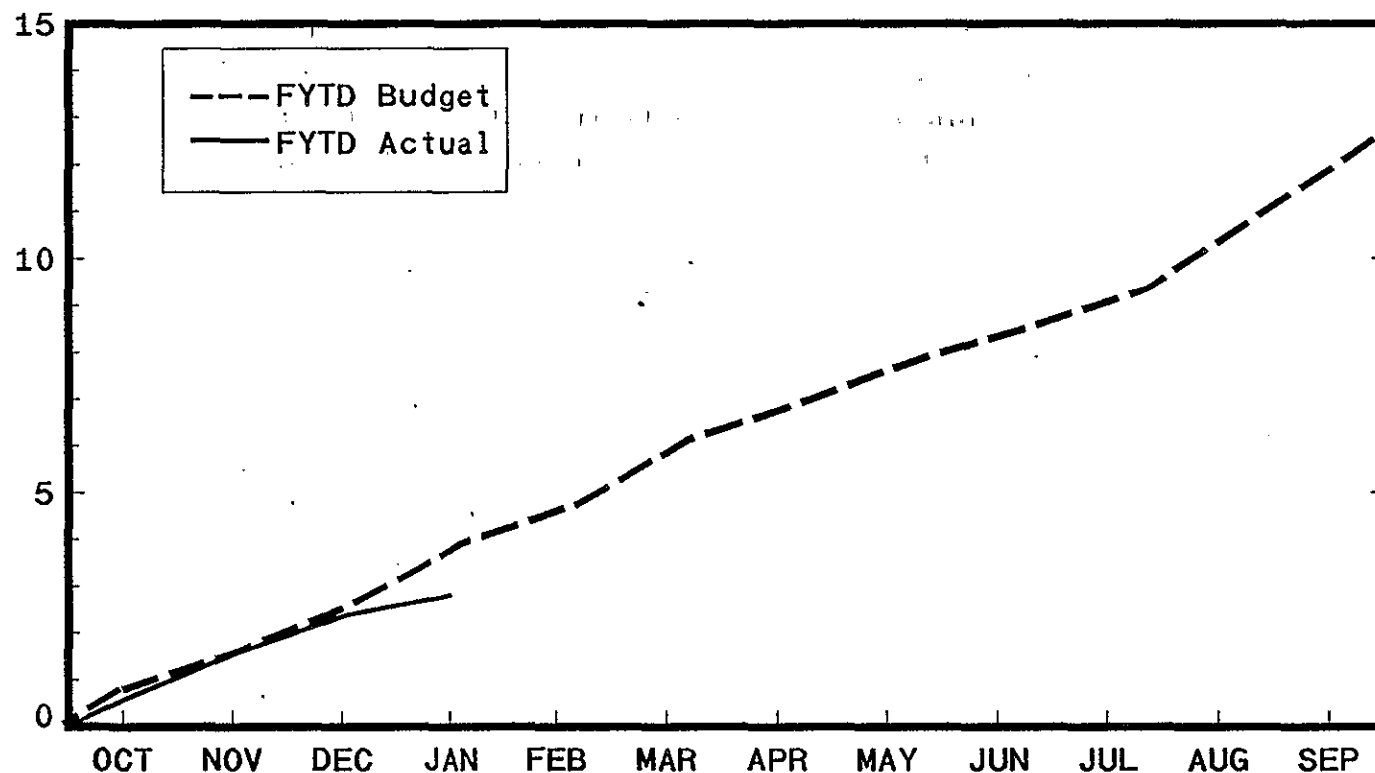
MILESTONE STATUS/PROBLEMS/ISSUES

- The required date for authorization of additional funding for *Project W-001, 222-S Ventilation and Electrical System Upgrade*, was extended a second time from January 1993 to mid-April 1993. This extension of the funding date was made possible by slowing down noncritical construction work performed by the onsite construction forces. The reprogramming request, originally returned by Congress, has been resubmitted. If the additional funds are not received by mid-April, the Fixed Price contractor will be placed on hold. If that action must be taken, Milestone M-11-00 will be missed.
- The trial assembly of the first hot cell has been delayed until February due to minor fabrication problems and adverse weather. No schedule impacts are expected.

MILESTONE M-11-00

FY 1993

\$ Millions



FYTD Budget	0.8	1.6	2.6	3.9	4.7	6.1	6.9	7.8	8.5	9.3	10.9	12.5
FYTD Actual	0.6	1.5	2.4	2.8								
Spending Var	0.2	0.1	0.2	1.1								

Variance Explanation: The underrun is mainly due to work performed under Project W-001, "222-S Lab Ventilation and Electrical System Upgrade," which was slowed down in order to extend available funding pending Congressional approval of a reprogramming request.

WMC-MR-0403-3

MAJOR MILESTONE: M-13-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: Annual Beginning
calendar year (CY) 1993PROJECTED DATE: Annual Beginning
CY 1993

DESCRIPTION: Submit six remedial investigation/feasibility study (RI/FS) or RCRA facility investigation/corrective measures study (RFI/CMS) work plans each year.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Submitted a change request to regulators consolidating operable units (OUs) 100-BC-3 and 100-BC-4 into 100-BC-2.
- Initiated a change request to delay the OU 100-BC-2 work plan from February 28, 1993, to April 30, 1993, to allow for the consolidation of OUs 100-BC-3 and 100-BC-4 into 100-BC-2.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit the OU 100-BC-2 work plan to the regulators for review.
- Submit the 200-UP-1 work plan to the regulators for review.
- Continue to resolve comments on the OU 200-UP-2 work plan with the regulators.

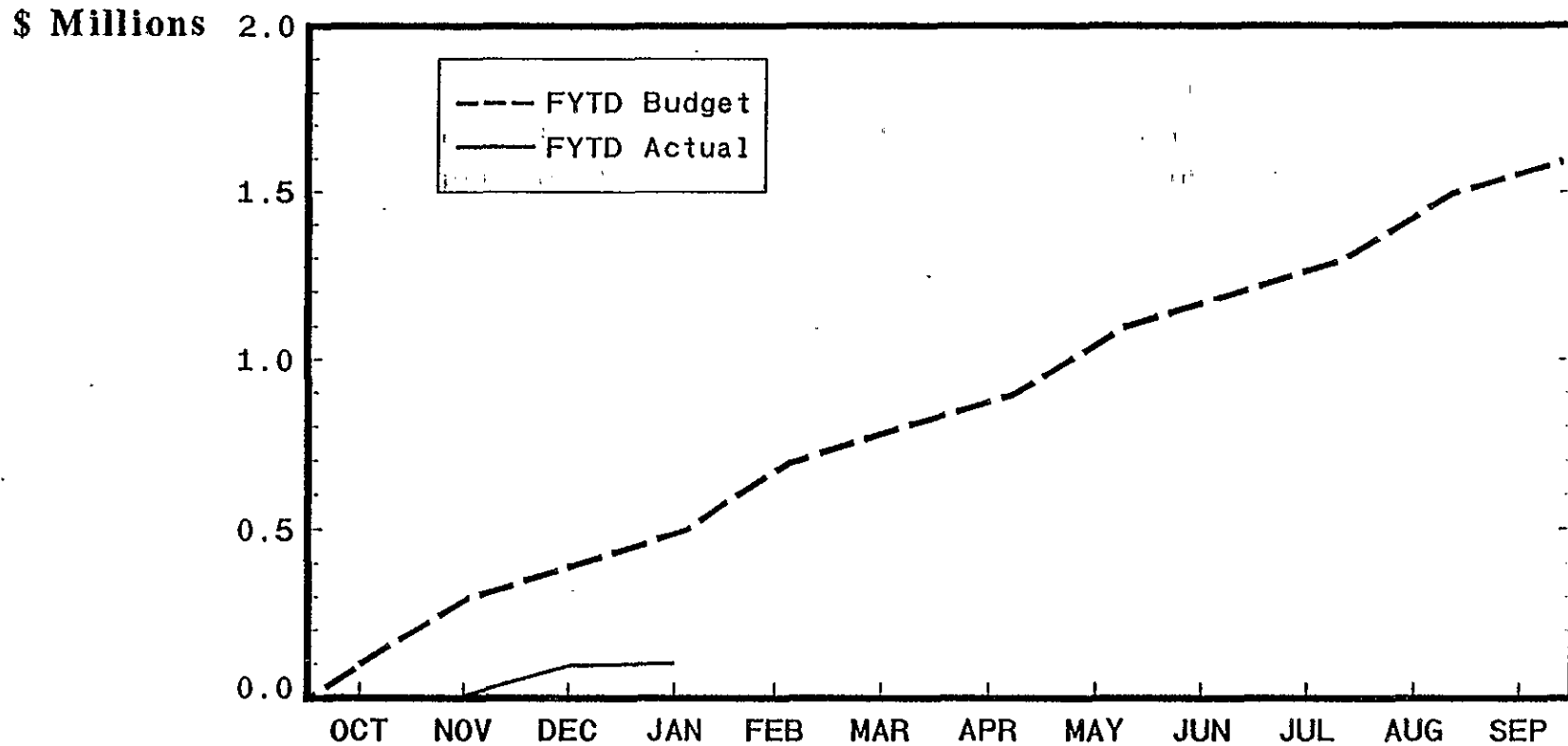
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

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MILESTONE M-13-00

FY 1993



WHC-MR-0403-3

FYTD Budget	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6
FYTD Actual	0.0	0.0	0.1	0.1								
Spending Var	0.1	0.3	0.3	0.4								

Variance Explanation: 100-BC-2 work plan prepared in-house opposed to offsite, by subcontractors, resulting in cost savings due to lower chargeout rates. 100-HR-2 work plan behind schedule due to recent decision to complete work plan in-house by WHC personnel as opposed to offsite by a subcontractor.

MAJOR MILESTONE: M-14-00
STATUS FOR END OF MONTH: JANUARY 1992

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

ACCOMPLISHMENTS

- Continued planning activities to provide analytical services to satisfy the proposed dispute resolution requirements.
- The Senior Executive Committee resolved the final points in the dispute and signed the agreement on January 8, 1993. The corresponding Tri-Party Agreement Change Request was signed January 11, 1993.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue WSCF construction. Receive laboratory modules and start installation.
- Continue preparations for award of a commercial laboratory contract per M-14-04.

MILESTONE STATUS/PROBLEMS/ISSUES

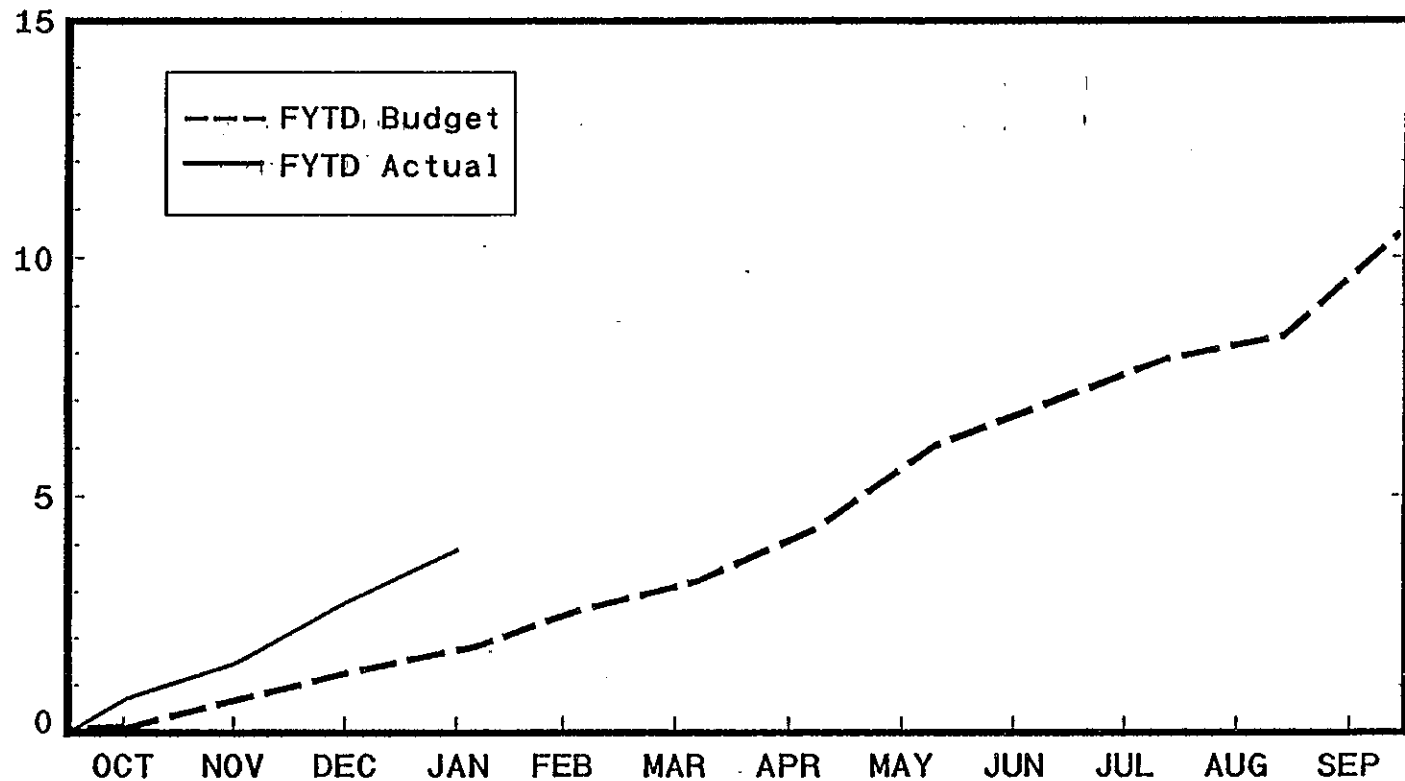
- Planning and initial activities to acquire all needed laboratory services, in accordance with the Senior Executive Committee resolution, are under way.

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MILESTONE M-14-00

FY 1993

\$ Millions



FYTD Budget	0.1	0.7	1.3	1.8	2.6	3.2	4.3	6.0	6.9	7.8	8.3	10.4
FYTD Actual	0.7	1.5	2.8	3.9								
Spending Var	(0.6)	(0.8)	(1.5)	(2.1)								

Variance Explanation: The overspent condition is a result of budget planning. In FY 1992, less budget than planned was required. To compensate for this situation in FY 1993, less budget than required was planned for the first few months of the fiscal year. This will allow actual costs to catch up with planned expenditures.

WMC-MR-0403-3

MAJOR MILESTONE: M-15-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RFI/CMS process for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-15-02D	Submit draft Phase I, II, and III feasibility studies (FSs) for 200-BP-1 source areas.	6/93	6/93
M-15-03B	Submit draft 300-FF-1 RI/FS Phase II report to U.S. Environmental Protection Agency (EPA) and Ecology.	12/15/93	12/15/93
M-15-04A	Submit draft 300-FF-5 F/S Phase I/II report to EPA and Ecology.	7/15/93	7/15/93

ACCOMPLISHMENTS

- Continued consolidation of all 1100 Area OUs for purposes of early remediation.
- Completed 100-BC-5 and 100-HR-3 third round of groundwater sampling.
- Received approval on January 21, 1993, on change requests for OUs 100-KR-1, 100-FR-1, 100-BC-1, 100-HR-3, 100-FR-3, 100-KR-4, 100-BC-5, and 100-HR-1, thus establishing interim milestones for eight OU Work Plan schedules.
- Initiated the limited field investigation (LFI) report activities for 100-BC-5.
- Transmitted validation report (WHC-SD-EN-TI-084, Rev. 0) to RL for distribution to the regulators.
- Initiated vadose zone borehole drilling activities at 100-FR-1.
- Completed drilling activities at 13 groundwater wells at 100-FR-3.
- Completed data validation of the soil and first round groundwater data for 100-HR-3.

100-BC-5
100-HR-3
100-FR-3
100-KR-4
100-BC-5
100-HR-1

- Initiated the LFI report at OU 100-HR-3.
- Completed vadose drilling at six borings for 100-NR-1, approximately 1 month ahead of schedule.
- Completed the T Plant aggregate area management study reports (AAMSR).
- Submitted the RI, Phase I, report to RL for 200-BP-1.
- Initiated the 7th round of groundwater sampling at 200-BP-1.
- Dispositioned comments from regulators delivered in a revised report (RI, Phase I, Report, Draft B and FS, Phase I/II, Draft A) for 300-FF-1 to the regulators Friday, January 29, 1993. This met the February 1, 1993, deadline specified by EPA and Ecology.
- Submitted a new statement of work to WHC procurement on January 28, 1993, for soil washing treatability test, as a result of the protests filed on the award of the contract November 1992 for soil washing treatability at 300-FF-1.
- Continued data validation and evaluation activities for 300-FF-5 RI, Phase I, and FS, Phase I/II reports.
- Delivered the 5th round sample plan to EPA and Ecology on January 28, 1993 for 300-FF-5.
- Delivered Draft B of the Columbia River Impact Evaluation Plan to regulators on January 28, 1993.
- Began the compiled Habitat Report with effort in the 200 areas.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Begin treatability tests for 100-BC-1, 100-DR-1, and 100-HR-1.
- Complete consolidation of all 1100 Area's OUs for early remediation.
- Complete OU 100-KR-4's third round of groundwater sampling.
- Complete the second round of groundwater sampling at the 100-FR-3 OU.
- Complete the second round of groundwater samples for 100-NR-2 scheduled for mid-February.
- Complete the B Plant AAMSR report, with the incorporation of regulator comments due early February 1993.
- Deliver the decisional draft of the 200-UP-1 Work Plan to RL in late February 1993.
- Deliver the leased ft³/min vapor extraction system (VES) unit by H2-Oil from Bend, Oregon, in late February 1993.

MILESTONE STATUS/PROBLEMS/ISSUES

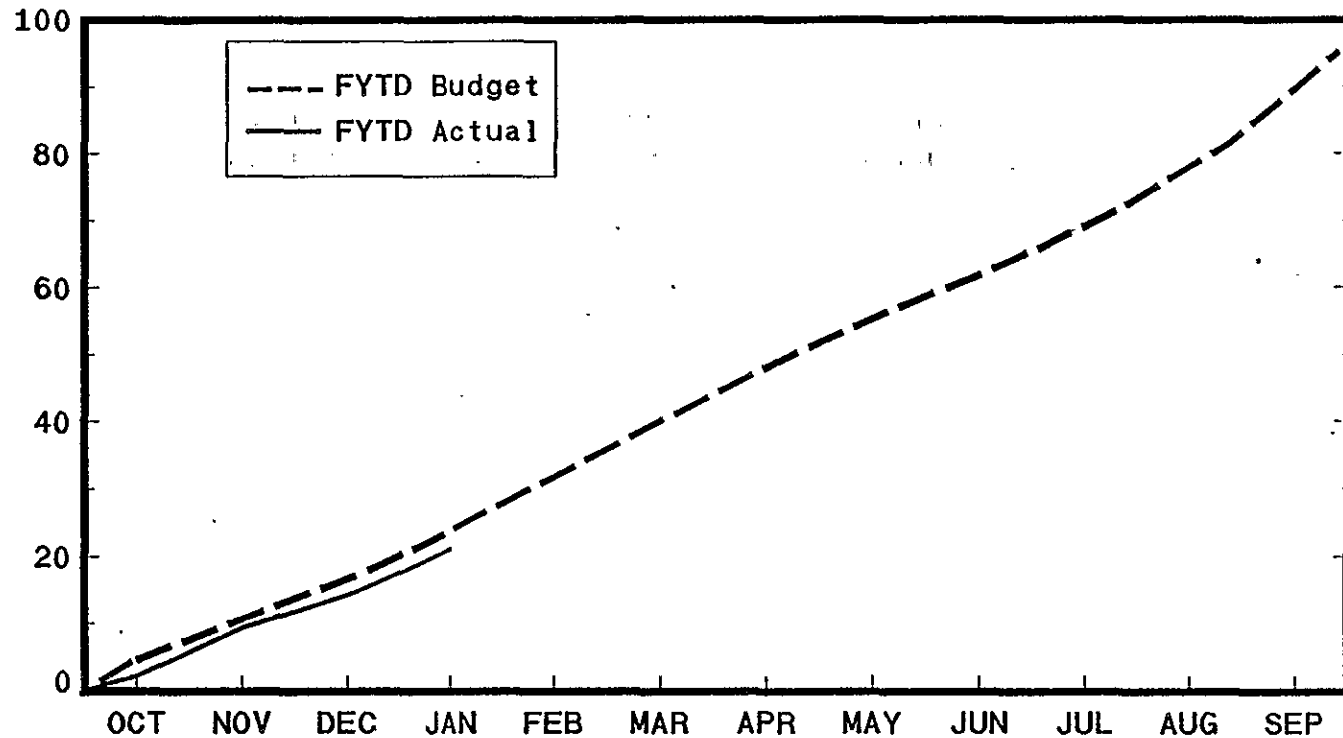
- Completion of the Qualitative Risk Assessments have been delayed for 100-BC-5, 100-DR-1, 100-HR-1 and 100-HR-3 due to incomplete data from Hanford Analytical Services Management.
- The Tri-Party Agreement December 15, 1993 Milestone (M-15-03B) for submittal of the 300-FF-1 Operable Unit Phase II RI Report is in jeopardy of being missed. After award of the soil washing contract, three protests were filed that resulted in stoppage of all work with the subcontractor. After assessing the time needed to resolve the protests, the decision was made to proceed with a new request for proposal (RFP). The second RFP was sent to the prospective bidders on February 1, 1993. The current schedule would have contract award on March 22. The current schedule would allow just enough time to complete the work required to meet the milestone. However, any protests or other procurement problems that push contract award beyond March 22 will result in missing the milestone.
- All interim milestones are on schedule.

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MILESTONE M-15-00

FY 1993

\$ Millions



FYTD Budget	4.6	11.0	17.2	24.7	33.0	41.5	49.8	57.1	63.8	71.6	81.6	95.2
FYTD Actual	2.3	9.1	14.3	21.2								
Spending Var	2.3	1.9	2.9	3.5								

Variance Explanation: The 300-FF-1 OU Treatability Test contract was delayed due to the protest by two of the unsuccessful bidders. Delay in sample validation impacting tasks supporting the Operable Unit Qualitative Risk Assessment (QRA) and Limited Field Investigation (LFI) reports. Revised scope of the prototype barrier yet to be finalized.





















MILESTONE M-15-00 FY 1993

Variance Explanation:

The variance is due to delays in release of site design drawings and prolonged freezing weather prevented KEH from procuring materials/initiating site preparation activities in support of field screening laboratory; lack of design support within PNL has caused a 1-month delay in upgrade activities for the Standard Laboratory and the Sample Receiving Facility at PNL 325 laboratory; 100-BC-2 Work Plan prepared in-house by WHC opposed to offsite by subcontractors, resulting in cost savings due to lower chargeout rates; the 300-FF-1 OU Treatability Test contract delayed due to protest by two of the unsuccessful bidders; delay in sample validation impacting tasks supporting the Operable Unit qualitative risk assessment (QRA) and LFI reports; revised scope of the prototype barrier yet to be finalized.

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MAJOR MILESTONE: M-16-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2018

PROJECTED DATE: September 2018

DESCRIPTION: Complete the remedial actions for all OUs.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Submitted a final letter to RL on January 25, 1993, requesting the removal of the moratorium against shipping the canisters at the carbon tetrachloride expedited response action (ERA).
- Restarted the VES at Z-1A on January 22, 1993, as scheduled.
- Resumed second phase sampling activities at the North Slope ERA the week of January 25, 1993.
- Prepared the engineering evaluation/cost analysis for White Bluffs Pickling Acid Crib continues.
- Issued a contract for leasing a 500 ft³/min VES to provide additional VES capability at the carbon tetrachloride ERA.
- Commenced a 24-hour operations at the carbon tetrachloride ERA.
- Initiated preparation of Revision 0 of the 200 East groundwater AAMSR.
- Issued the 200 West groundwater AAMSR for 200 West groundwater.
- Completed sampling activities for the Riverland Rail Wash Pit.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete the 200 East groundwater AAMSR report.
- Transmit the planning proposal for the 200 West groundwater ERA to EPA and Ecology.

- Complete FS recommending a cost-effective onsite treatment method is scheduled to go to the regulators in early February 1993 for the carbon tetrachloride ERA.
- Continue preparation of the engineering evaluation/cost analysis for the North Slope, Riverland Rail Wash Pit, Pickling Acid Crib ERAs.

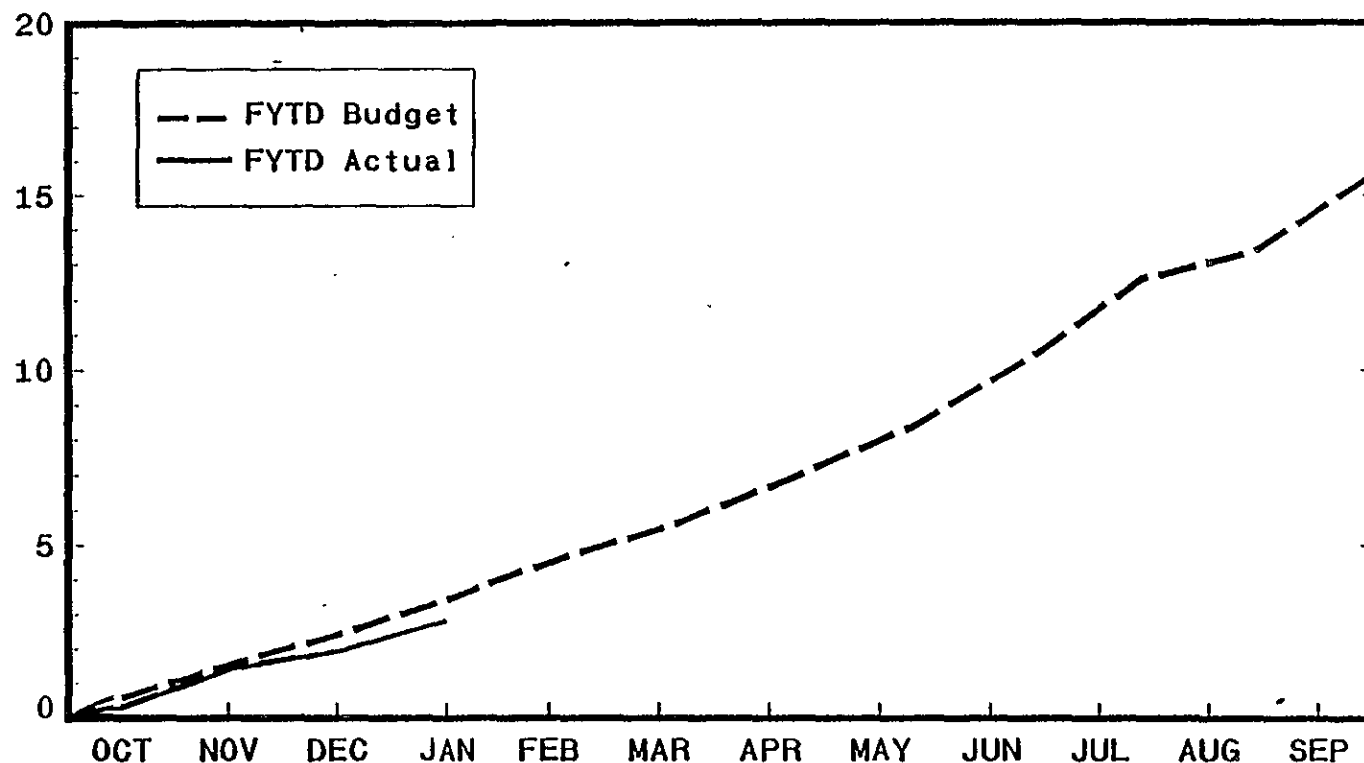
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-16-00

FY 1993

\$ Millions



FYTD Budget	0.6	1.6	2.5	3.6	4.7	5.7	7.0	8.4	10.3	12.6	13.4	15.6
FYTD Actual	0.3	1.4	1.9	2.8								
Spending Var	0.3	0.2	0.6	0.8								

Variance Explanation: Eight week delay in initiation of N Springs EE/CA development due to extensive RL review. Carbon Tetrachloride ERA well drilling and pipeline integrity test scope behind schedule due to higher priority work for supporting organizations; well drilling also impacted by safety reviews and poor January weather.

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MAJOR MILESTONE: M-17-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:

BASELINE DATE: June 1995

PROJECTED DATE: June 1995

DESCRIPTION: Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment (BAT/AKART) for all Phase II liquid effluents at the Hanford Site.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Presented groundwater assessment plans to EPA and Ecology for the 216-U-14 Ditch, 216-Z-20 Crib, 216-U-17 Crib, and the 100-D Ponds (M-17-13).
- Change request for Tri-Party Agreement Milestone M-17-17D (final flow reduction for the UO₃ Wastewater Effluent Stream) was approved. The final flow rate restriction (250 gal/min) for this stream will not change and RL has maintained the wastewater stream at or below this flow rate restriction since August 1991. The requested modification would allow for a temporary increase of UO₃ wastewater flow to accommodate the UO₃ stabilization run. Provisions for this temporary increase are currently included in Tri-Party Agreement Interim Milestone M-17-17A; however, the provisions need to be administratively transferred to interim Tri-Party Agreement Milestone M-17-17D to accommodate the revised schedule of the stabilization run. The total flow to Crib 216-U-14 will not be increased as a result of this change.
- Completed definitive design of "300 Area Treated Effluent Disposal Facility" (Project L-045H), Milestone M-17-09A.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete definitive design of the 200 Area Treated Effluent Disposal Facility (Project W-049H) collection system.
- Complete 30% definitive design of the Project W-049H disposal system and initiate detailed definitive design work on the disposal system.
- Initiate construction of the Project W-049H collection system.
- Initiate construction of the "242-A Evaporator/PUREX Condensate Treatment Facility" (i.e., Project C-018H) process facility buildings and permanent structures.
- Present groundwater assessment plans to EPA and Ecology for the 1325-N Liquid Wastewater Disposal Facility, 216-W-LWC Crib, 284-W Powerhouse Pond, and the 2101-M Pond by April 1993 (M-17-13).
- Initiate negotiations on additional milestones containing the terms and conditions outlined by EPA and Ecology to allow continued discharges to the 300 Area Process Trenches.

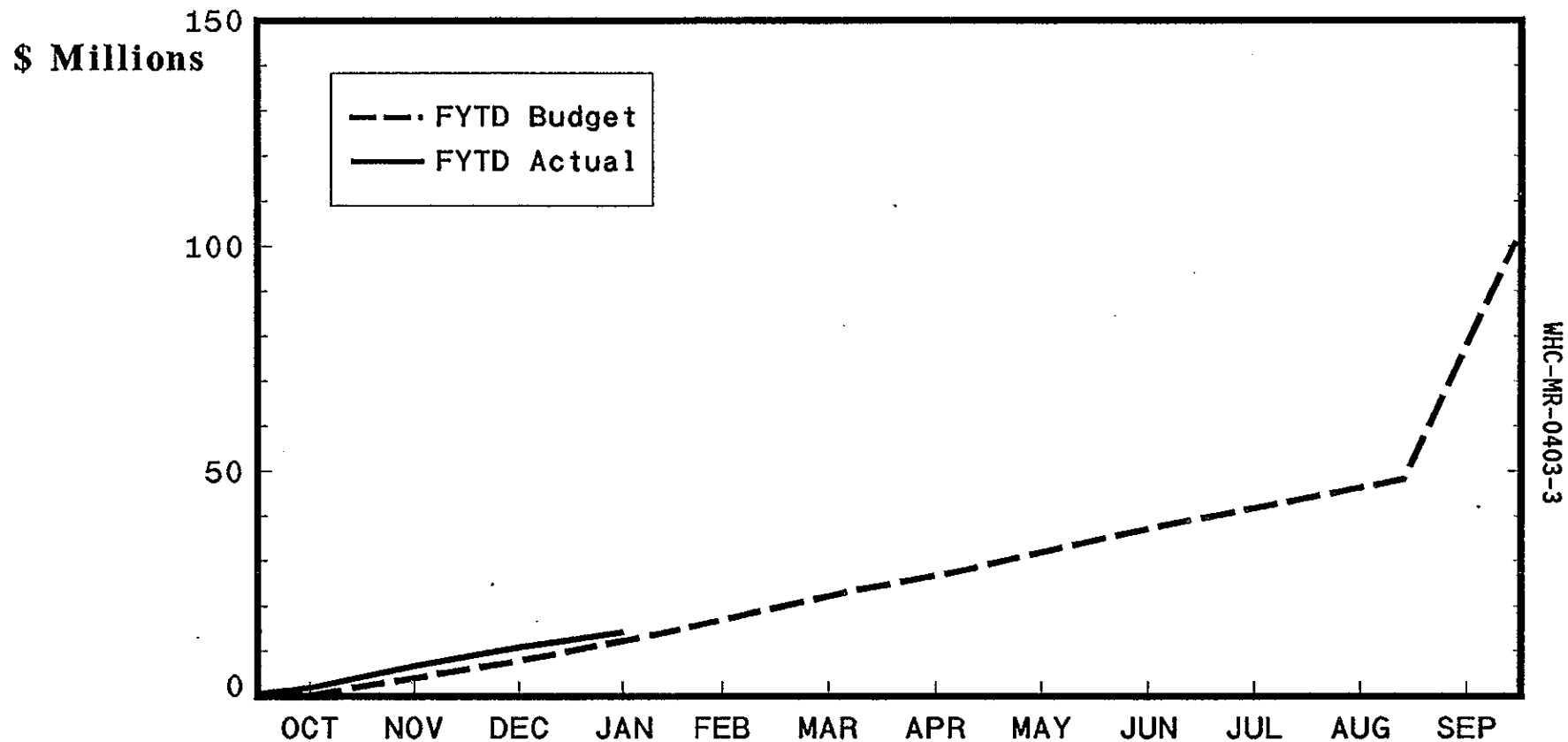
MILESTONE STATUS/PROBLEMS/ISSUES

- Milestone on schedule. Design work for the 300 Area Treated Effluent Disposal Facility (Project L-045H) proceeds ahead of schedule.
- Ecology and EPA outlined the terms and conditions under which they would approve continued discharge of the 300 Area Process Sewer to the 300 Area Process Trenches. Conditions include abandonment of the western trench, additional flow restrictions, additional reporting requirements, and installation of additional flow measuring devices. RL is evaluating the conditions and will initiate negotiations with the regulators on this issue.
- Compliance with all effluent flow restrictions contained in Tri-Party Agreement Milestone M-17 have been maintained.

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MILESTONE M-17-00

FY 1993



FYTD Budget	0.3	4.3	8.3	12.9	17.7	23.1	27.8	33.4	38.6	43.2	48.0	100.4
FYTD Actual	2.4	6.9	10.7	14.1								
Spending Var	(2.1)	(2.6)	(2.4)	(1.2)								

Variance Explanation: Overrun due to fast track design L-045H and accelerated construction on C-018H and W-049H.

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MAJOR MILESTONE: M-18-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

DESCRIPTION: Complete Waste Receiving and Processing (WRAP) Facility, Module 1, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- Draft air permit applications are undergoing internal contractor review.
- The architect-engineer submitted two design packages to RL for approval. To facilitate the management of the design process, the design of the WRAP Facility has been divided into several design packages, each of which addresses a major component of the WRAP Facility.
- Continued discussions pertaining to the RCRA permit application at the monthly Tri-Party Agreement Unit Managers Meeting.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Continue Title 2 Design activities and complete 90% design review.
- Initiate construction of WRAP, Module 1.
- Complete glovebox testing.
- Complete the WRAP Facility, Module 1, PSAR.
- Prepare construction bid packages for WRAP, Module 1. These bid packages will cover major components of the WRAP facility (e.g., electrical system, heating and ventilation system, fire protection system). Private firms will bid on these packages for work to be performed during the upcoming construction of the WRAP Facility.

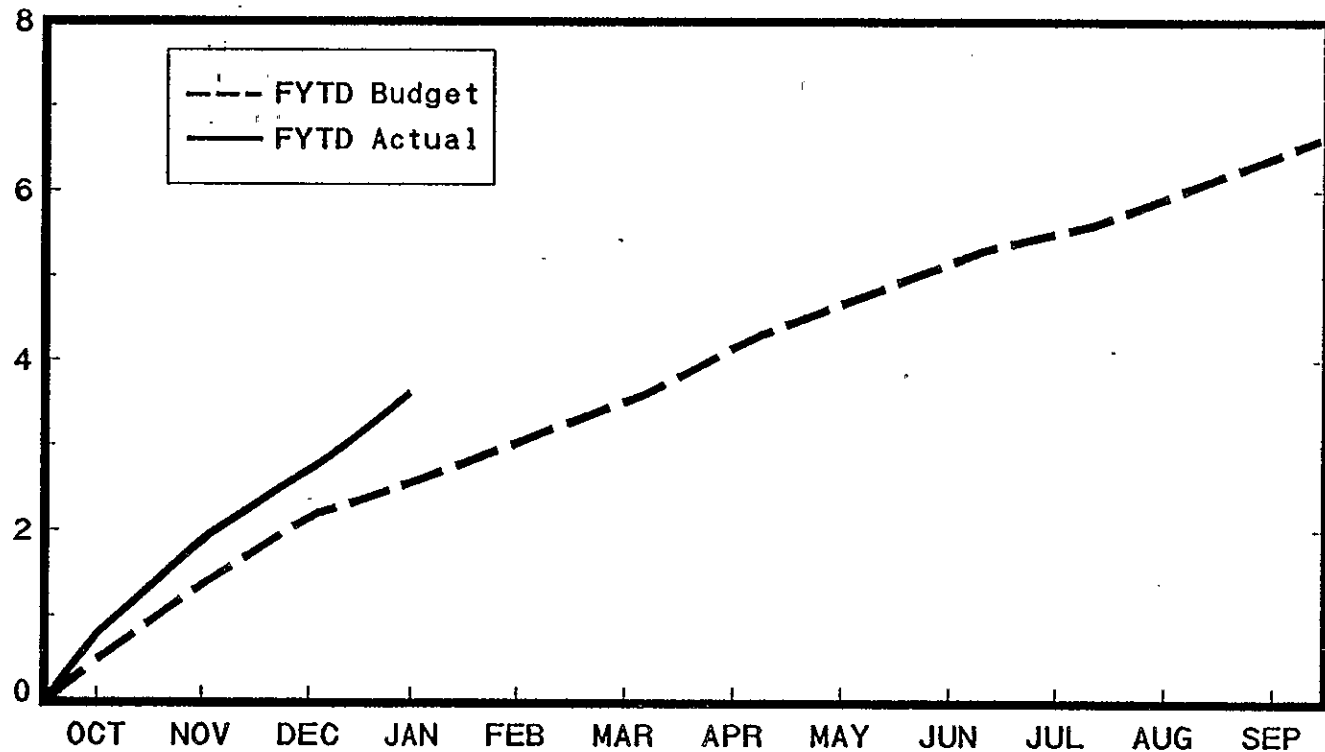
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-18-00

FY 1993

\$ Millions



WMC-MR-0403-3

FYTD Budget	0.5	1.4	2.2	2.6	3.1	3.6	4.3	4.8	5.3	5.6	6.1	6.6
FYTD Actual	0.8	1.9	2.7	3.6								
Spending Var	(0.3)	(0.5)	(1.5)	(1.0)								

Variance Explanation: Overrun due mainly to increased efforts on preliminary and detailed design by U.E.&C. This issue has been taken to the RL project manager and procurement officer. Sufficient project contingency exists to proceed ahead of schedule and offset the cost variance with no impact to the project total estimated cost.

MAJOR MILESTONE: M-19-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: J. M. Hennig**MANAGER: R. J. Roberts****BASELINE DATE: September 1999****PROJECTED DATE: September 1999**

DESCRIPTION: Complete WRAP Facility, Module 2, construction and initiate operations.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

ACCOMPLISHMENTS

- United Engineers and Contractors (the architect-engineer for WRAP Facility, Module 2) completed the initial draft modules of the Draft Advanced Conceptual Design Report (ACDR) and submitted to the contractor for review.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete an engineering study for Module 2B to develop alternatives for transuranic (TRU) treatment and recommendations for treatment (proposed Interim Milestone M-19-03).
- Continue preparation of the Advanced Conceptual Design for Module 2A.
- Obtain approval of Tri-Party Agreement Change Request M-19-91-01 from Ecology and EPA.
- Continue with waste form qualification testing.
- Initiate activities for the development of the Module 2A PSAR.
- Prepare and approve the Module 2A engineering and development program plan. This plan will outline the testing and development requirements for technologies being considered for inclusion in the Module 2A waste treatment systems.
- Obtain Key Decision 1 for Module 2A from HQ. This decision is required to proceed into detailed definitive design of the project.

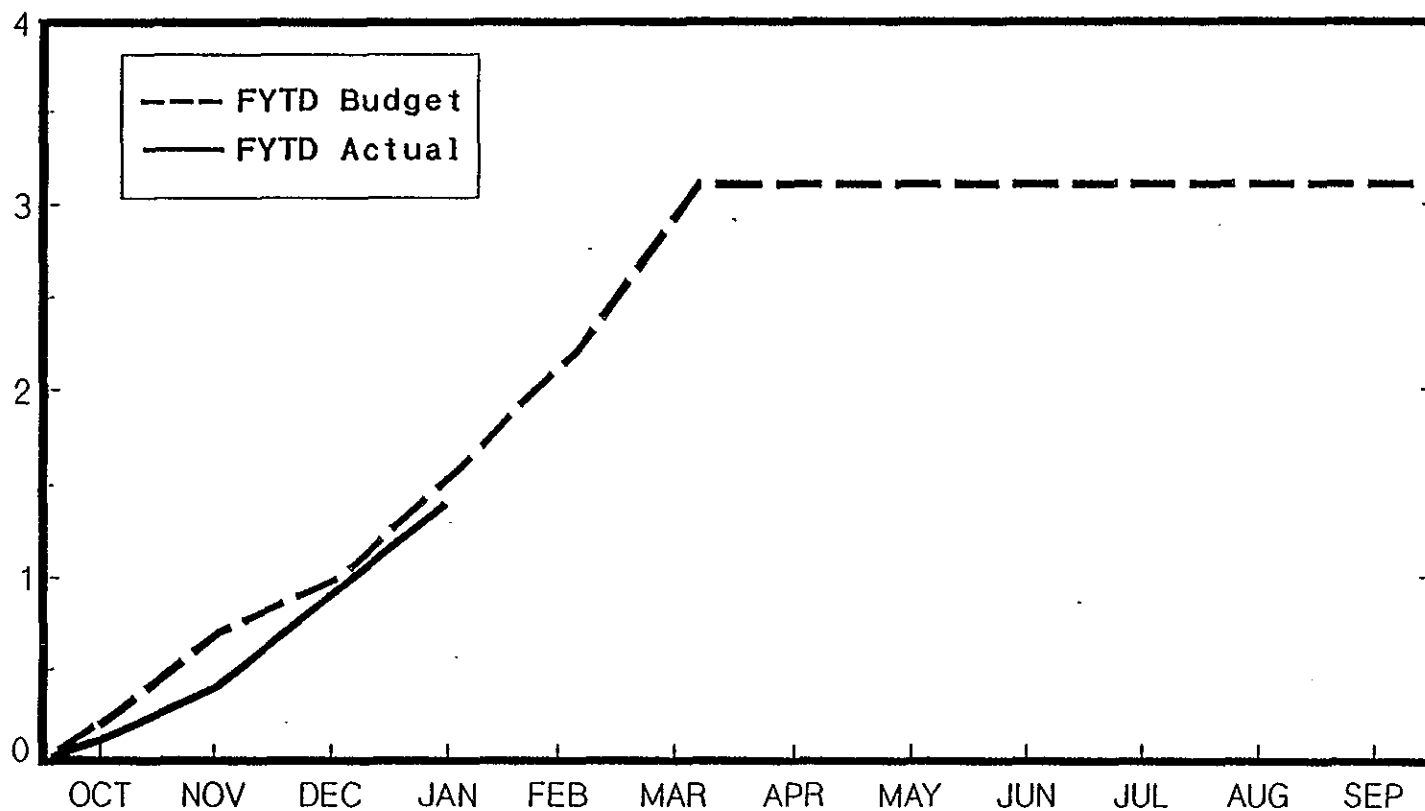
MILESTONE STATUS/PROBLEMS/ISSUES

- Significant technical issues continue to exist regarding the Waste Isolation Pilot Plant (WIPP) waste acceptance criteria impact on the design of Module 2. The portion of Module 2 (i.e., Module 2B) that will receive and process remote-handled TRU-contaminated hazardous waste (i.e., mixed remote handled transuranic [RH-TRU] waste) is behind schedule. Design of Module 2B cannot proceed until the WIPP waste acceptance criteria issues are resolved. The portion of Module 2 that was not affected by the WIPP waste acceptance criteria (i.e., Module 2A) remains on schedule. The submodularization of Module 2 is reflected in Tri-Party Agreement Change Request M-19-91-01 which is under review by Ecology and EPA.
- Module 2A completion and initiation of operations is on schedule for September 1999, the Tri-Party Agreement Milestone M-19-00 due date. The engineering study for Module 2B to develop alternatives for TRU treatment and recommendations for treatment (proposed interim milestone M-19-03) is on schedule.

MILESTONE M-19-00

FY 1993

\$ Millions



WHC-MR-0403-3

FYTD Budget	0.2	0.7	1.0	1.6	2.2	3.1	3.1	3.1	3.1	3.1	3.1
FYTD Actual	0.1	0.4	0.9	1.4							
Spending Var	0.1	0.3	0.1	0.2							

Variance Explanation: Waste mixing technique evaluation was deferred until March along with engineering and management support of the effort.

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MAJOR MILESTONE: M-20-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

DESCRIPTION: Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units (TSD) units.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute*
M-20-40	Submit 100-D Ponds Closure Plan.	2/93	2/93
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94*
M-20-50	Submit 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility Part B.	8/93	8/93

*See "Milestone Status/Problems/Issues."

ACCOMPLISHMENTS

- Submitted a Class II change request to establish a new milestone (M-20-51) for submittal of a Part B application for the T Plant Complex.
- Submitted a NOI to expand treatment and storage capacities at the T Plant Complex to Ecology and the EPA on December 14, 1992.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit NOI for expansion of treatment and storage capacities at the DST system and the 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility.
- Develop and submit 100-D Pond Closure Plan (M-20-40)
- Respond to Notices of Deficiency for the 222-S Laboratory Complex Part B Permit Application (M-20-22; completed December 1991), Low-Level Burial Grounds Part B Permit Application (M-20-06; completed December 1989),

Liquid Effluent Retention Facility Part B Permit Application (M-20-47; completed June 1991), 305-B Part B Permit Application (M-20-08; completed January 1990), 616 Nonradioactive Dangerous Waste Storage Facility Part B Permit Application (M-20-02; completed July 1989), Revision 1 (M-20-08) and for the 4843 Alkali Metal Storage Facility Closure Plan (M-20-14 completed June 30, 1991).

Revise 105-DR Large Sodium Fire Facility Closure Plan to reflect agreements with Ecology on resolution of notice of deficiency comments.

MILESTONE STATUS/PROBLEMS/ISSUES

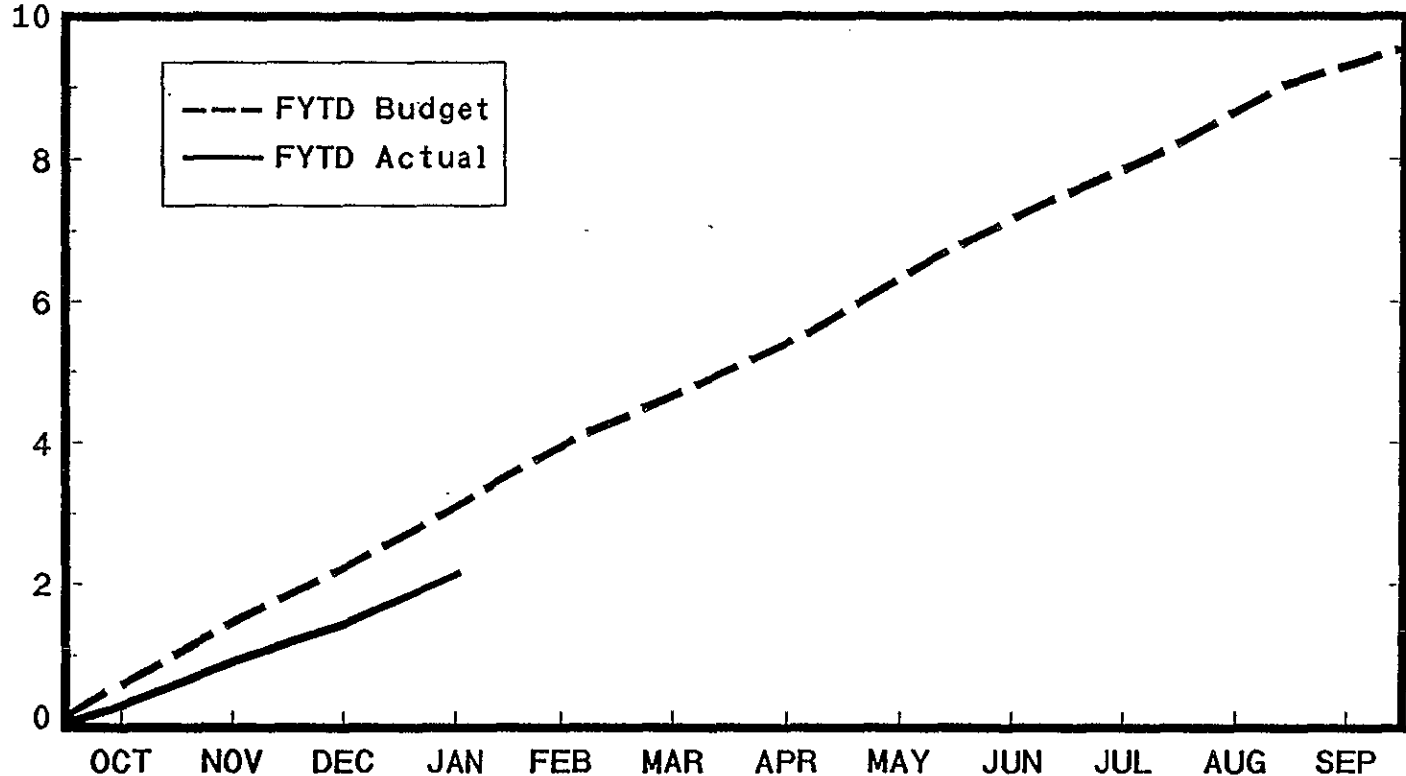
- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--A request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete Milestone M-20-30 were prepared and transmitted to Ecology. Ecology denied both. A notice of dispute was prepared by RL and a meeting was held with Ecology to initiate resolution. Positions of both parties are being developed for discussion at a future Tri-Party Agreement Project Managers meeting.
- M-20-40, "Submit 100-D Pond Closure Plan to Ecology and EPA"--Work is proceeding on schedule to meet the current milestone date. HQ and RL comments on the closure plan are being incorporated and the closure plan is being finalized for issuance by March 1, 1992.
- M-20-42, Submit Thermal Treatment Part B to Ecology and EPA (T-X-3)--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete application to be prepared. A Change Package (M-20-92-7) to delay submittal of this Part B permit application from December 31, 1993, to December 31, 1994, was submitted to RL for approval on October 27, 1992.
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--A tabulation of updates was prepared for the *Hanford Facility Dangerous Waste Permit Application, Rev. 0*, originally submitted to the regulators (Ecology and EPA) in October of 1991. This update is a tabulation of changes required to reflect the *Hanford Site Comments on the Draft Permit for the Treatment, Storage, and Disposal of Dangerous Waste for the Hanford Facility* submitted to the regulators on March 16, 1992. This update action will not be executed until we receive HQ's approval. HQ concurrence was expected before the end of December 1992, but is still pending. These updates are being incorporated into Revision 1 of the *Hanford Facility Dangerous Waste Permit Application*, now scheduled to be completed by February 28, 1993.

The schedule for reissuance by Ecology and EPA of the revised Draft Hanford Facility Permit for public comment remains indefinite; informal discussions with the regulators indicate that reissuance will not occur before mid-March 1993.

MILESTONE M-20-00

FY 1993

\$ Millions



WHC-MR-0403-3

FYTD Budget	0.6	1.5	2.3	3.2	4.1	4.8	5.6	6.6	7.4	8.1	9.0	9.5
FYTD Actual	0.3	0.9	1.4	2.1								
Spending Var	0.3	0.6	0.9	1.1								

Variance Explanation: The underrun is due to continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses resulting in less than planned support for follow on revisions of these documents.

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MAJOR MILESTONE: M-24-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. THOMPSON

BASELINE DATE: December 1993

PROJECTED DATE: December 1993

DESCRIPTION: Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-24-00	Install up to 50 wells for CY 1993.	12/93	12/93
M-24-30	Install two additional wells RCRA around the 1325-N Crib (4 total).	12/93	12/93
M-24-31	Install 2 additional RCRA wells around the Low-Level Burial Grounds (81 total)	12/93	12/93
M-24-32	Install 3 additional RCRA wells around the GTF (13 total).	12/93	12/93

ACCOMPLISHMENTS

- Completed all actions associated with meeting the final interim milestone (M-24-23) and the major milestone for CY 1992.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Begin drilling activities for CY 1993 wells.
- Prepare and submit documentation of achieving a RCRA-compliant groundwater monitoring system for the Hanford Site.

MILESTONE STATUS/PROBLEMS/ISSUES

- Hanford technical staff, working with Ecology technical staff, have determined the locations for six sites for RCRA groundwater monitoring wells in CY 1993. There is technical agreement between RL and Ecology that monitoring to be accomplished by one of the wells originally

proposed at 1325-N Crib can be accomplished by an existing well. A change request reducing this milestone by one well will be prepared; in the meantime the requirement is for seven wells in CY 1993.

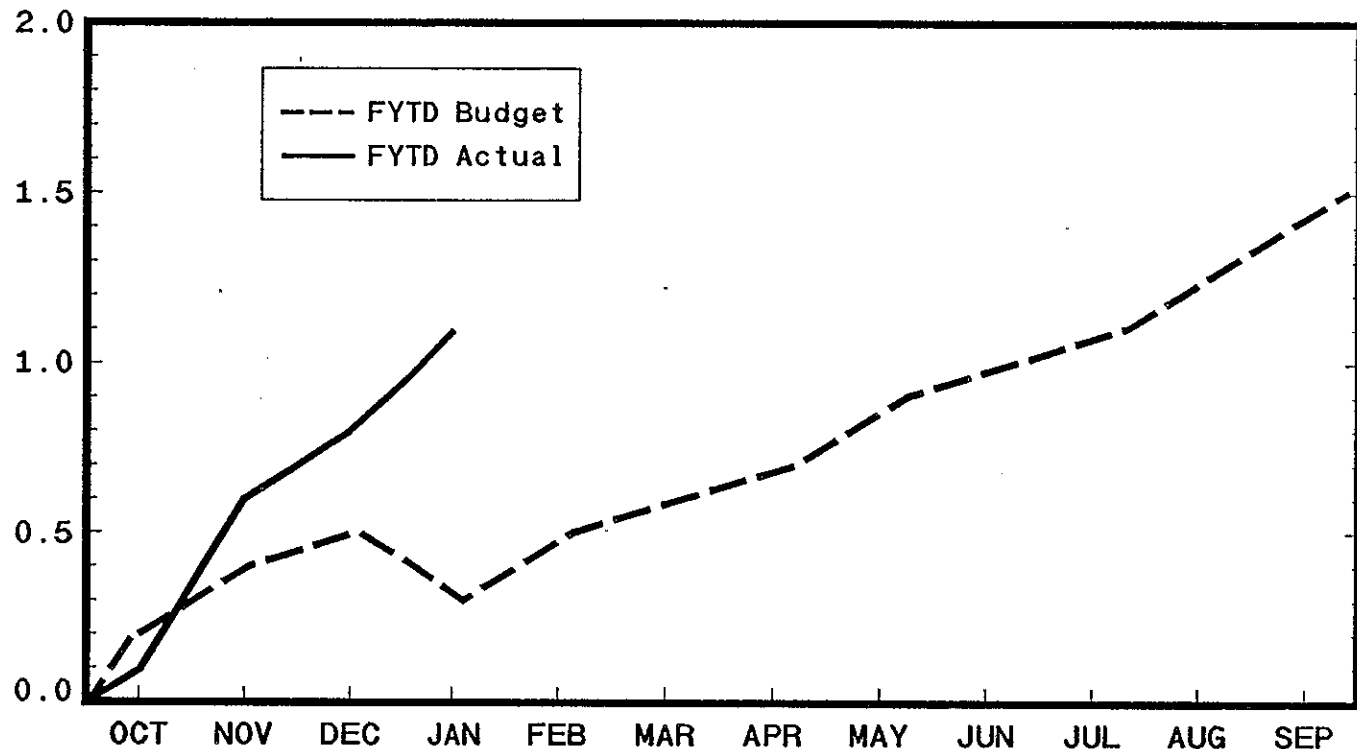
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MILESTONE M-24-00

FY 1993

\$ Millions



WMC-MR-0403-3

FYTD Budget	0.2	0.4	0.5	0.3	0.5	0.6	0.7	0.9	1.0	1.1	1.3	1.5
FYTD Actual	0.1	0.6	0.8	1.1								
Spending Var	0.1	(0.2)	(0.3)	(0.8)								

Variance Explanation: Project W-17H was expected to complete drilling wells before Dec. 1992, but it did not. Expense funded support (project related reports and closeout) is required for longer than planned. The overrun condition will continue. The \$750 K reduction in September FYTD budget from the December report was caused by a transfer from W-017H to the HEC Line Item contingency.

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MAJOR MILESTONE: M-26-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: J. M. Hennig

MANAGER: C. J. Geier

BASELINE DATE: April 1993

PROJECTED DATE: April 1993

DESCRIPTION: Submit Annual Hanford Land Disposal Restrictions (LDR) Report in Accordance with the LDR Plan to Cover the Period from April 1 through March 31.

PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-26-01C	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/93	4/30/93

ACCOMPLISHMENTS

- The contractor continued work on the 1993 LDR Report.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- The contractor is scheduled to issue the preliminary draft 1993 LDR Report for RL review in March 1993.

MILESTONE STATUS/PROBLEMS/ISSUES

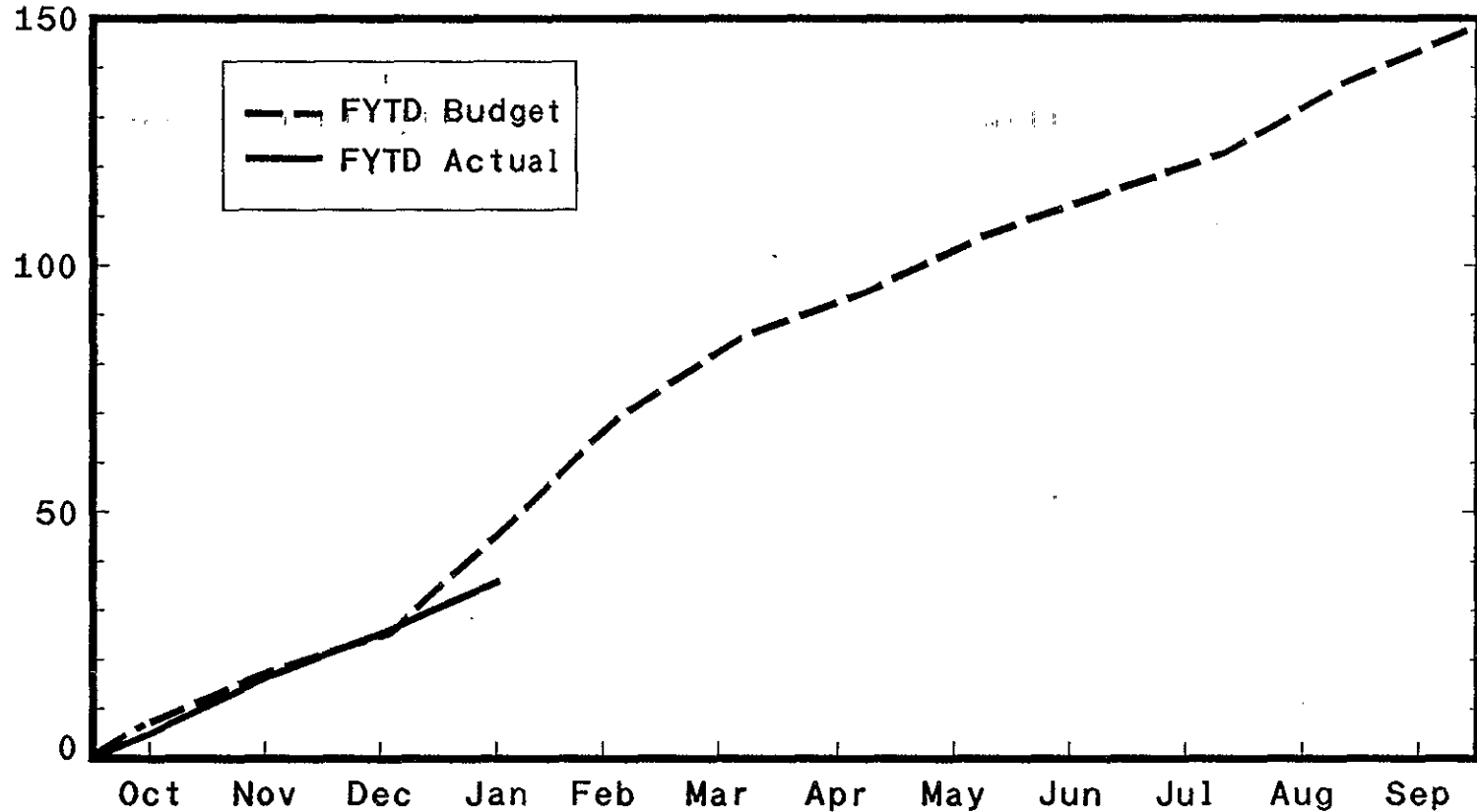
- This milestone is on schedule.

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MILESTONE M-26-00

FY 1993

\$ Thousands



WHC-MR-0403-3

FYTD Budget	7.5	17.7	25.5	47.4	69.4	85.3	94.3	105.8	114.4	122.4	136.6	147.1
FYTD Actual	5.3	16.4	25.1	35.6								
Spending Var	2.2	1.3	0.4	11.8								

Note: This chart is done in thousands to provide meaningful data. Budget Baseline Summary table shows zero because it is in millions.

MAJOR MILESTONE: M-30-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. D. Freeberg**MANAGER: T. M. Winctzak****BASELINE DATE: September 1993****PROJECTED DATE: September 1993**

DESCRIPTION: Complete integrated general investigations and studies for the 100 Area.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-30-05	Complete installation of all field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

ACCOMPLISHMENTS

- Issued Draft B of the Columbia River Impact Evaluation Report.
- Drafted the second draft of the Aquatic Investigations report.
- Completed Cultural Resources reports for all sites found in the 100-HR-3 area.
- Continuing to work on the toxicology of contaminants of concern for ecological investigations.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Issue Cultural Resource reports in February 1993.
- Complete Revision 2 of the Hanford Baseline Risk Assessment Methodology, with the incorporation of the EPA "Framework for Ecological Risk Assessment."
- Schedule a meeting to define work scope to complete M-30-05.

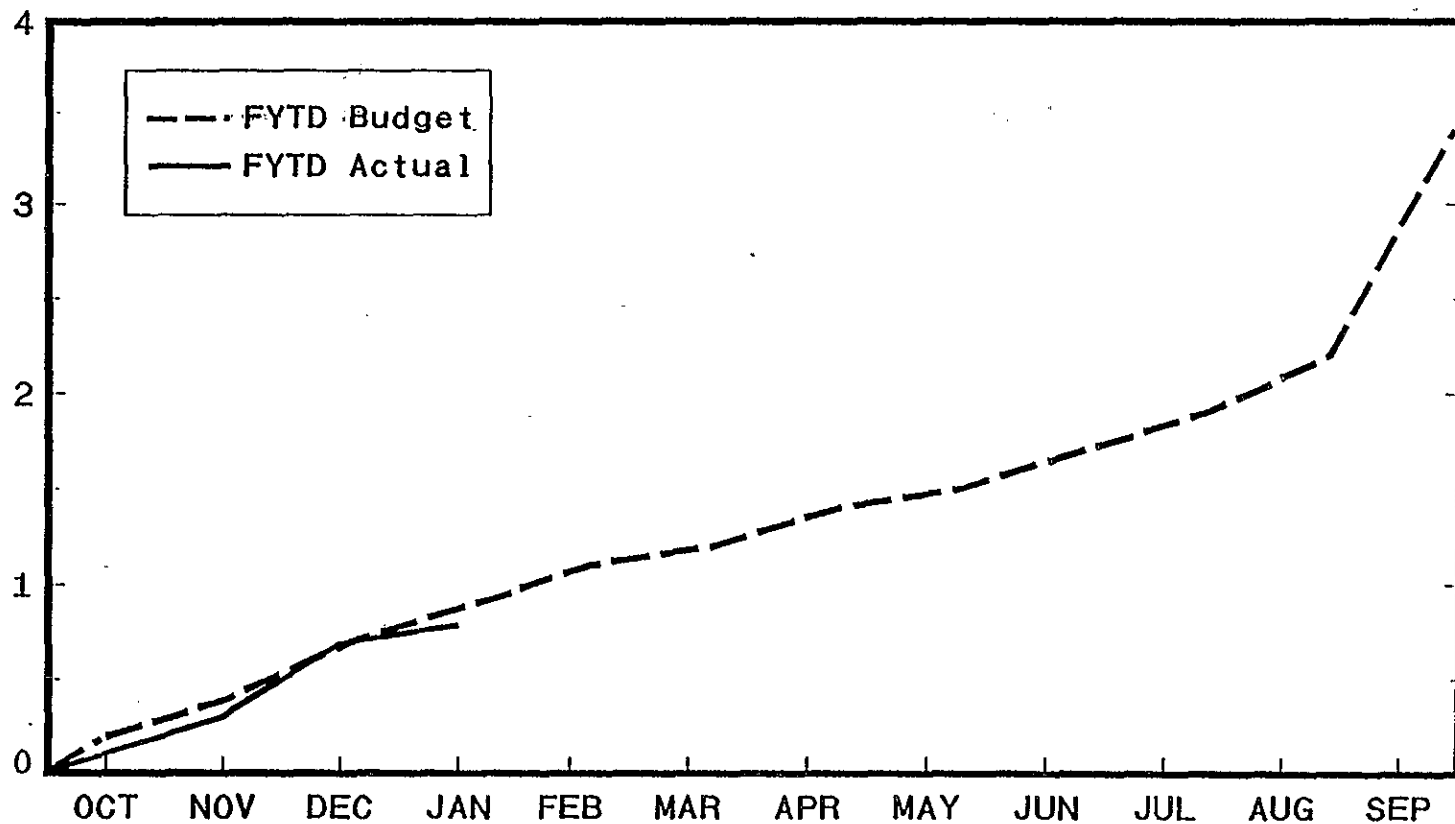
MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.

MILESTONE M-30-00

FY 1993

\$ Millions



MHC-MR-0403-3

FYTD Budget	0.2	0.4	0.7	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.2	3.4
FYTD Actual	0.0	0.3	0.7	0.8								
Spending Var	0.2	0.1	0.0	0.1								

Variance Explanation: Labor support to complete the chromium speciation, to identify contamination level of concern, and characterize contaminant fluxes was less than planned.

MAJOR MILESTONE: M-31-00
STATUS FOR END OF MONTH: JANUARY 1993

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Provide additional DST capacity. Construction complete.

PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

ACCOMPLISHMENTS

- Completed Interim Milestone M-31-03 "Initiate Definitive Design of New Multifunction Waste Tank Facility" as scheduled.

PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Resolve the issues associated with the Ecology denial of the M-31-92-03 change request.
- Continue definitive design of the New Multifunction Waste Tank Facility.

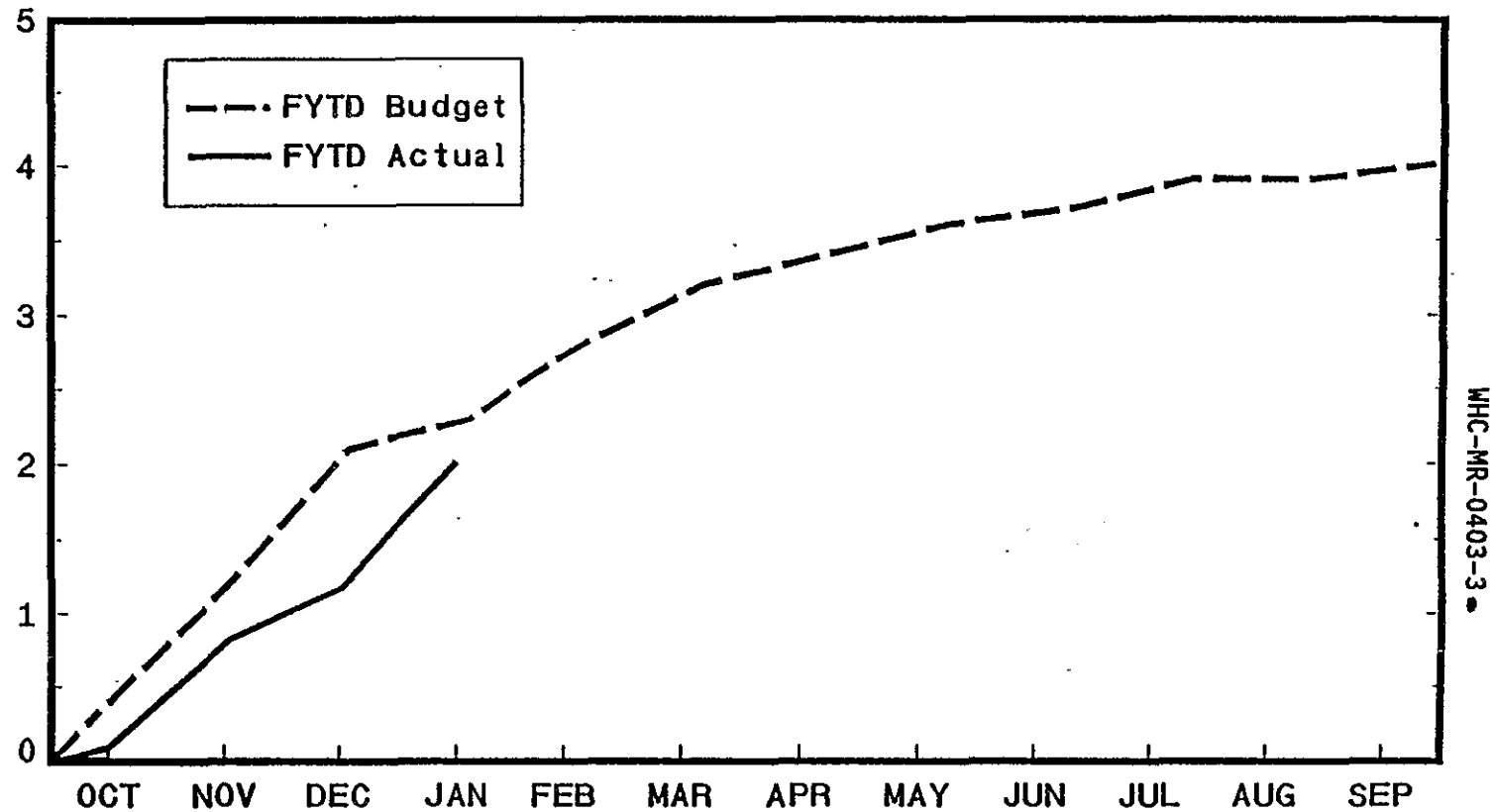
MILESTONE STATUS/PROBLEMS/ISSUES

- A change request has been developed to allow the deferral of the evaluation of additional DST capacity needs (M-31-02) until after the completion of the TWRS rebaselining effort. The change request was denied based on the timeliness of the request. RL has entered dispute resolution to resolve this interim milestone issue. Informal negotiations to resolve the dispute are now scheduled to begin in February.

MILESTONE M-31-00

FY 1993

\$ Millions



WHC-MR-0403-3

FYTD Budget	0.4	1.2	2.1	2.3	2.8	3.2	3.4	3.6	3.7	3.9	3.9	4.0
FYTD Actual	0.0	0.8	1.2	2.0								
Spending Var	0.4	0.4	0.9	0.3								

Variance Explanation: Underrun is due to outstanding commitment for consultants costs. No underrun is expected at the end of fiscal year.

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